EFFECTIVE EDUCATIONAL PRACTICES FOR STUDENTS WITH AUTISM SPECTRUM DISORDERS

A RESOURCE GUIDE

2007
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Une publication équivalente est disponible en français sous le titre suivant : *Pratiques pédagogiques efficaces pour les élèves atteints de troubles du spectre autistique.*

This publication is available on the Ministry of Education's website, at www.edu.gov.on.ca.
As educators, we share a deep commitment to ensuring that every student has the opportunity to succeed and achieve to his or her highest potential. In developing this guide, the Ministry of Education acknowledges the valuable work being done in schools and classrooms across Ontario, and the dedication of teachers throughout the province to creating a learning environment that supports the success of every student.

What You Will Find in This Guide

This resource guide is designed to support educators in elementary and secondary schools in Ontario in planning and implementing effective educational programs for students with Autism Spectrum Disorders (ASD). It contains information, strategies, and practices that can be put to use in the school and the classroom. It also includes a collection of sample materials reflecting current practices in schools, as well as lists of references and resources for further reading.

*Effective Educational Practices for Students with Autism Spectrum Disorders (ASD)* includes the following elements:

- **Foundations**: General information about the diagnosis of ASD, characteristics of individuals with the disorder, and key principles for planning effective educational programs for students with ASD
• **Teaching and Learning:** Strategies and practices that have been found to be effective for students with ASD

• **Communication and Behaviour:** Strategies and techniques for addressing challenging behaviour, and improving communication and social skills

• **Tools & Techniques:** Sample materials that represent the most effective current practices, collected from school boards and regional autism service provider agencies across Ontario.

• **Reference Materials:** A glossary and lists of helpful resources on ASD, including publications and websites, as well as children’s books.

**Getting the Most from This Guide**

*Effective Educational Practices for Students with Autism Spectrum Disorders (ASD)* is designed as a practical reference you can use every day. In order to get the most out of this guide, you may wish to read it first in its entirety. Then, you can refer back to specific chapters or sections, or select from the various samples provided in Chapter 4, “Tools and Techniques”. As you explore the suggestions and tools provided in this guide, keep in mind that it is important to adapt them to the specific needs of the student, classroom, and school.
Look for These Text Features

To make this guide as useful as possible, the following symbols have been designed to highlight key features within the text.

**TIPS FOR TEACHERS**
For quick reference on strategies that have been found to be effective

**TOOLS & TECHNIQUES**
From Ontario school boards and regional autism service provider agencies

**INSIGHT**
For deepening your understanding of ASD

**KEY FACTS**
For consideration in planning programs for students with ASD

**RESOURCES**
For additional information and further study

Deepening Your Knowledge

In recent years a wealth of information and resource materials has been developed regarding the education of students with ASD. This resource guide is not intended as a complete or comprehensive source of information, but has been developed to provide examples of practices that have been found to be effective. Educators who are seeking additional information for further investigations on the topic of educating students with ASD are encouraged to consult the references and resources listed in the appendices of this guide, and to monitor the growing body of knowledge on this topic.
Why This Guide Was Developed

The Ontario Ministry of Education has undertaken a number of initiatives to support school boards, school authorities, and provincial/demonstration schools in teaching students with ASD. In September 2003, the ministry organized a conference on teaching students with autism, in partnership with the Autism Society of Ontario (now Autism Ontario), the Geneva Centre for Autism, the Council of Ontario Directors of Education, and the Council for Exceptional Children. Following the conference, the ministry worked with Ontario school boards to provide regional forums, in French and English, for educators working directly with students with autism at the school level to further explore programming and effective teaching strategies.

In 2004, the School Support Program – Autism Spectrum Disorder (SSP–ASD) was established through a partnership between the Ministry of Children and Youth Services and the Ministry of Education, school boards, and designated community agencies. The SSP–ASD is administered by nine lead autism service provider agencies. Through this program, ASD consultants are connected with school boards to work with school staff – teachers, principals, and others who interact with children – to help them address the needs of students with ASD.

To complement the services available through the autism service provider agencies, the ministry funded Geneva Centre for Autism to provide training opportunities in the 2006-2007 and 2007-2008 school years for teachers’ assistants (TAs) who work or may work with students with ASD.

In fall 2006, the Ministers’ Autism Spectrum Disorders Reference Group was established to provide advice to the Minister of Education and the Minister of Children and Youth Services on effective, evidence-based educational practices to meet the wide range of needs of students with ASD. The reference group included practitioners, researchers, parent representatives, and representatives from the francophone community who were
selected for their expertise and professional and personal experience with children, youth, and young adults with ASD. A report with recommendations from the reference group – *Making a Difference for Students with Autism Spectrum Disorders in Ontario Schools: From Evidence to Action* – was prepared for the ministers, and in spring 2007 the report was distributed to school boards.

In support of the recommendations of the reference group, in May 2007 the ministry released Policy/Program Memorandum No. 140, “Incorporating Methods of Applied Behaviour Analysis (ABA) into Programs for Students with Autism Spectrum Disorders (ASD),” 2007. Regional training sessions were offered to board teams to clarify the expectations in the PPM.

To build on all of the previous initiatives, the ministry has developed this resource guide as another step to support school boards in the education of students with ASD in elementary and secondary schools.

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**Acknowledgement**

*The Ministry of Education acknowledges the contributions of resources and information from Ontario school boards, the Geneva Centre for Autism, and the regional autism service provider agencies that deliver the School Support Program – Autism Spectrum Disorder, which were invaluable in the creation of this guide.*
Autism Spectrum Disorders (ASD) are complex neurological disorders that have a lifelong effect on the development of various abilities and skills. Helping students to achieve to their highest potential requires both an understanding of ASD and its characteristics, and the elements of successful program planning required to address them.

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About Autism Spectrum Disorders

Autism Spectrum Disorders (ASD) are complex neurological disorders that have a lifelong effect on the development of various abilities and skills. ASD is characterized by impairments in communication and social interaction, as well as unusual patterns of behaviours, interests, and activities.

The term “spectrum” is used to recognize a range of disorders that include a continuum of developmental severity. The symptoms of ASD can range from mild to severe impairments in several areas of development. Many professionals in the medical, educational, and vocational fields are still discovering how ASD affects people and how to work effectively with individuals with ASD.

<table>
<thead>
<tr>
<th>MYTHS ABOUT ASD</th>
<th>THE FACTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASD is rare.</td>
<td>ASD is not rare. It affects approximately 1 in every 165 persons</td>
</tr>
<tr>
<td>(Fombonne et al., 2006)</td>
<td></td>
</tr>
<tr>
<td>ASD is an emotional disorder.</td>
<td>ASD is a neurological disorder.</td>
</tr>
<tr>
<td>Poor parenting causes ASD.</td>
<td>Parents do not cause ASD in children.</td>
</tr>
<tr>
<td>There is a cure for ASD, or children will “grow out of” the disorders.</td>
<td>Children do not grow out of ASD. With early intervention and good educational programs, students may make significant progress.</td>
</tr>
<tr>
<td>Everyone with ASD behaves in the same way.</td>
<td>Students with ASD are individuals who each have unique strengths and needs.</td>
</tr>
<tr>
<td>Students with ASD have to be in special programs for “the autistic”.</td>
<td>Individually designed programs best meet the needs of students affected by ASD. Students need to be learning, living, and working in settings where there are ample opportunities to communicate and interact with others who have the skills they need.</td>
</tr>
</tbody>
</table>

(Adapted with permission from the website of the Geneva Centre for Autism, April 2006)
Terminology

The terms “autism”, “Pervasive Developmental Disorders (PDD)”, and “ASD” have been used interchangeably within the literature and by professionals and parents, and may cause confusion.

**Autism** was first identified in 1943 by Leo Kanner, an American psychologist. Kanner noticed distinctive, common characteristics within a subgroup of children in whom other mental disorders had been diagnosed originally. Kanner recognized the inability of this subgroup to relate in the ordinary way to other people and situations, and he described this behaviour as “extreme autistic aloneness” (Kanner, 1943). As a result, for several decades the disorder was referred to as autism.

**Pervasive Developmental Disorders (PDD)** was first used in the *Diagnostic and Statistical Manual of Mental Disorders–III (DSM-III)* by the American Psychiatric Association (APA) in 1980 as a general term to describe a class of disorders that shared the following characteristics: impairments in social interaction, imaginative activity, and verbal and non-verbal communication skills, and a limited number of interests and activities that tend to be repetitive. In 1994, five disorders were identified in the updated *DSM-IV* (APA, 1994) under the category of PDD: Autistic Disorder, Rett’s Disorder, Childhood Disintegrative Disorder, Asperger’s Disorder, and Pervasive Developmental Disorder Not Otherwise Specified (PDD NOS).

*The general term “PPD” is often confused with the specific diagnosis of PDD NOS.*

Autism is recognized by the Ontario Ministry of Education as a communication exceptionality for the purposes of student identification and placement. This term continues to be used frequently as a shorthand term to include various conditions that are now recognized as a range of disorders.
Autism Spectrum Disorders (ASD) was first used in 1988 (Wing, Allen) and is now commonly used to describe a subset of PDD that includes only Autistic Disorder, Asperger’s Disorder, and PDD NOS. In some cases, the term ASD is used to acknowledge the complete range or spectrum of associated characteristics and disorders that are included in PDD.

The term “ASD” will be used throughout this document in reference to students who have Autistic Disorder, Asperger’s Disorder, or PDD NOS.

ASD

The following is a brief summary of each of the three disorders considered ASD. More specific information regarding the diagnostic criteria, such as the characteristics that must be present in both quantity and type for diagnosis, can be found in the Diagnostic and Statistical Manual of Mental Disorders-IV Text Revision (DSM-IV-TR) (APA, 2000).

Autistic Disorder

Students with Autistic Disorder have noticeably abnormal or impaired development in social interaction and communication and a restricted repertoire of activity and interests. Such students often show a preoccupation with one narrow interest and an insistence on following routines. Abnormalities in the development of cognitive skills and in posture and body movements may be present. These impairments are accompanied by a delay or abnormal functioning in social interaction, language used in social communication, or symbolic or imaginative play that was recognized prior to three years of age.

Asperger’s Disorder

Like students with Autistic Disorder, students with Asperger’s Disorder show impaired social interaction and display a limited field of interests and activities prior to three years of age. This impairment causes difficulties in social and/or occupational functioning. The difference between students with Autistic

• Foundations

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Autistic Disorder is four to five times more common in boys than girls.

Asperger’s Disorder is also known as Asperger’s syndrome and is diagnosed at least five times more frequently in boys than girls.
Disorder and Asperger’s Disorder is that students with Asperger’s Disorder show no significant delay in language acquisition, although the more subtle aspects of social communication may be affected. There are no significant delays in cognitive development or in the acquisition of age-appropriate learning skills or adaptive behaviours. Restricted, repetitive patterns of behaviour, interests, and activities are common. Students with Asperger’s Disorder may experience feelings of social isolation, which may contribute to depression or anxiety in adolescence.

**Pervasive Developmental Disorder Not Otherwise Specified (PDD NOS)**

Students with PDD NOS have severe impairments in the development of reciprocal social interaction, including impairments in either verbal or non-verbal communication skills, or have stereotyped behaviours, interests, and activities. PDD NOS, also referred to as “atypical autism”, includes individuals who do not fit into the other categories because they do not meet all of the diagnostic criteria for a specific disorder; for example, diagnostic symptoms may occur at a later age.

**Causes of ASD**

There are several theories about the cause or causes of ASD. Researchers are exploring various explanations but, to date, no definitive answers or specific causes have been linked scientifically to the onset of ASD. Research suggests that individuals with ASD experience biological or neurological differences in the brain.

In many families, there appears to be a pattern of ASD-related disabilities, which suggests that ASD is an inherited genetic disorder. Current research studies show that certain classes of genes may be involved or work in combination to cause ASD. There appear to be many different forms of genetic susceptibility but, to date, no single gene has been directly related to ASD (Autism Genome Project Consortium, 2007). Ongoing research is being done to further investigate the cause of ASD.
Prevalence of ASD

ASD was once viewed as a rare disorder, but recent studies suggest that the prevalence rate for all forms of ASD is much higher than previously thought. The most current estimates from studies in Canada and the United Kingdom are that ASD is diagnosed in 60 of every 10,000 children, or one in 165 (Fombonne et al., 2006).

ASD is now recognized as the most common neurological disorder (Geneva Centre for Autism, 2006) and has been found throughout the world in families of all racial, ethnic, and social backgrounds. It is diagnosed more frequently in males than females; worldwide, males are affected four times as often as females (Chakrabarti & Fombonne, 2005).

An increase in the numbers of individuals in whom ASD is diagnosed can be linked to a combination of factors. With the broader definition of PDD that was provided in DSM-IV (APA, 1994) and an improved recognition of the symptoms, changes in diagnostic practices have occurred (Chakrabarti & Fombonne, 2005). As a result, the diagnosis of PDD is being made more frequently and at an earlier age (Fombonne, 2003). Also, in recent years, more rigorous methods are being used in surveys to find and gather data on cases of ASD.

While other possible causes for the increasing rates of diagnosis and resulting identification continue to be investigated, there is no direct evidence to support an increased incidence, or epidemic, of ASD. The research cited above suggests that ASD appears to be more common now because the tools used for diagnosing ASD in children are better now than before.

Diagnosis of ASD

The complex nature of ASD makes it difficult to diagnose, and there is no single medical test to determine if a student has ASD. In general, the perspectives of various professionals are required as part of the diagnostic process, which usually includes an assessment conducted by a qualified professional.
who specializes in developmental disorders, such as a child psychiatrist, developmental pediatrician, child psychologist, or neuropsychologist.

Accurately diagnosing ASD in a student typically includes the following:
- assessments of multiple areas of functioning, such as intellectual and communication skills
- a review of developmental history
- parental input

Diagnosis is not a quick process and is much like putting together pieces of a puzzle. ASD is diagnosed through the presence or absence of certain behaviours, characteristic symptoms, or developmental delays. Often several tests may be performed to rule out other medical conditions, such as a loss of hearing that may be causing the social and communication impairments, before considering a diagnosis of ASD.

In many cases, ASD will be diagnosed in children before they begin attending school, often when they are between two and three years of age, although in some cases the child will start school prior to receiving a medical diagnosis of ASD. Parents often share with health professionals the information provided by educators about concerns related to the development of a child’s social, communication, and behaviour skills in the school setting. This information may assist in the determination of an appropriate medical diagnosis.

**Characteristics of Students with ASD**

Several disorders are included in the diagnosis of ASD, and the symptoms and characteristics of each disorder can be present in a variety of combinations and develop within a continuum of severity. The degree of impairments can range from mild to profound and will affect individuals very differently.

Characteristics vary widely. For example, some students may be overly sensitive and display extreme reactions to sensory stimuli,
while others do not respond at all to the same stimuli. Also, although students with ASD generally have impairments in both verbal and non-verbal communication skills, those with Asperger’s Disorder usually have relatively good verbal skills.

The following chart describes some characteristics, related to the above-noted impairments, that students with ASD may exhibit in the classroom.

<table>
<thead>
<tr>
<th>Area of Impairment</th>
<th>The student:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social skills</td>
<td>• demonstrates difficulties interacting with peers and adults</td>
</tr>
<tr>
<td></td>
<td>• has difficulty reading and understanding social cues or situations</td>
</tr>
<tr>
<td></td>
<td>• withdraws from or provides unusual responses in social situations</td>
</tr>
<tr>
<td></td>
<td>• engages in play that is lacking in the imaginative qualities of social play</td>
</tr>
<tr>
<td>Communication skills</td>
<td>• has difficulty communicating thoughts and needs verbally and non-verbally</td>
</tr>
<tr>
<td></td>
<td>• has difficulty with non-verbal communication, such as use of gestures,</td>
</tr>
<tr>
<td></td>
<td>pictures, eye contact, and facial expressions</td>
</tr>
<tr>
<td></td>
<td>• uses speech that includes repetitive, echolalic, or unusual language</td>
</tr>
<tr>
<td>Behaviour</td>
<td>• displays obsessions or preoccupations with specific themes or objects</td>
</tr>
<tr>
<td></td>
<td>• likes order and may line up toys repeatedly</td>
</tr>
<tr>
<td></td>
<td>• engages in unusual behaviours, such as rocking, spinning, or hand flapping</td>
</tr>
<tr>
<td></td>
<td>• gets extremely upset with changes in routine or schedules</td>
</tr>
<tr>
<td></td>
<td>• has an unusual response to loud noises or other sensory stimuli</td>
</tr>
</tbody>
</table>
The general level of intelligence can vary significantly across the population of students with ASD. Some individuals will demonstrate normal levels of cognitive development, while others will have profoundly impaired or abnormal development of cognitive skills. For example, about 75 per cent to 80 per cent of individuals with Autistic Disorder will have significant cognitive impairments. Many individuals with Asperger’s Disorder, however, will have average to above-average intellectual functioning (Perry & Condillac, 2003).

The profile of various cognitive abilities in an individual may also be uneven, regardless of the individual’s general level of intelligence. In some cases, special or “splinter” skills are present: an individual has highly developed skills in a very specific area of ability, such as long-term memory, but the same individual also has severe impairments in the development of other skills. For example, some individuals with Autistic Disorder may have excellent recall of technical data or mathematical formulas, but they repeat the information over and over again in a context that is socially inappropriate.

In many cases, comorbid (or additional) disorders, such as an anxiety or mental disorder, are diagnosed in individuals with ASD. The effects of the symptoms of other disorders can increase the severity of impairments for individuals with ASD.
Program Planning

Parent Involvement

Parents play a vital role in the education of their children. As partners in the process, parents can provide perspectives and information that will broaden educators’ understanding of the student. Parent participation will enhance program planning and assist in the determination of educational goals, methods, and motivational strategies that are most appropriate and effective for a student.

A consultative partnership between home and school is developed through regular, frequent opportunities for discussions about the student’s unique learning needs, evidence of progress, and any adjustments to the educational program that may need to be considered.

Students with ASD generally have difficulty transferring or generalizing skills from one situation or environment to another. The learning process for a student with ASD is supported when the same skills and concepts are reinforced in both the home and school environments.

Involving families in planning their child’s educational program may assist in developing the student’s ability to learn. Families are often able to provide additional opportunities for the student to practise skills. This may also enhance the student’s ability to generalize skills to various settings. Students will be more successful in learning and generalizing skills when families and schools share a common focus, approach, and goals.

Having a child with ASD is a challenge for any family and may have an emotional, physical, and financial impact on the family (Higgins, Bailey, & Pearce, 2005). The impact on families can vary considerably across situations. Some families are able to cope with these additional stressors; however, for others it can be
more difficult. It is important to keep in mind that many parents are on their own journey of acceptance of the diagnosis and its significant implications for both their own lives and the life of their child.

The needs of families who have children with ASD can depend on:
• the particular characteristics of their child (such as age, level of functioning);
• the parents’ own interpersonal resources;
• the availability and effectiveness of supports and services.

When interacting with families, it is important to be sensitive to these issues (Perry & Condillac, 2003).

Parents are able to provide valuable information about many key aspects that affect how a student participates at school, such as:
• Developmental history
• Health issues
• The range of professionals who are or have been involved with the student and the services provided
• Their child’s likes, dislikes, special interests, and sensory sensitivities
• Effective positive reinforcers and motivators

Teachers should secure appropriate consents from parents regarding personal information about students.

Parents are advocates for their child’s best interests. It is essential that they have opportunities to be involved as partners in the ongoing planning and review of educational programs for students with ASD. A strong partnership between schools and families is the foundation for a student’s ongoing, successful experience at school.

Home/School Communication
Positive relationships between home and school have been shown to improve parental involvement and increase parents’ comfort level in working with the school.
It is important to keep in mind that home/school communication for many students with ASD is a method of reporting for students who, because of the nature of their disability, cannot do this for themselves.

The nature of the communication between home and school can have a significant impact on the quality of this relationship, as well as on a student’s program at school and the ongoing development and generalization of skills. Many parents report that they wait expectantly to read the communication book at the end of each day and that their emotional state can be considerably influenced by its content. Thus, it is important to be cognizant of the messages that are sent and how the messages are stated.

It is important that the teacher, TA, principal, and parent meet to discuss and establish methods for home/school communication. Consideration should be given to the format, information to be included, information from home that will be shared, and the constraints of time for all parties. As well, guidelines for reporting any significant behavioural issues need to be clearly established.

The classroom teacher is responsible for the content of the home/school communication. In some situations, while a TA may guide the student through the process of reporting daily events, this should be reviewed by the teacher. As a guideline to positive practice, the teacher should use methods such as a home/school communication book or phone call to maintain contact with the parent on a regular basis to provide updates on the student’s activities and progress.

Generally, parents want to know about the activities in which their child participated during the day. Parents can use this information to talk with their child and elicit communicative responses whenever possible. Information to assist in this process can include:

- Activities in which the student participated
- Any new or particular skills that were demonstrated
- Nature of play with friends and classmates
- Songs and stories of the day
- New themes or areas of learning
- Upcoming, special events, trips, or snack days.
Health Issues
Some children have serious health issues, such as seizures or allergies, about which parents need more frequent information. Any serious occurrence should be reported to parents immediately. Collaboration between parent and school is essential to mutually decide on a way to report on health-related issues that is efficient for both home and school. In any situation where health issues are a serious concern, safety protocols must be created and shared with all staff.

Reporting Behavioural Difficulties
Most parents are aware of the behavioural difficulties of their child, and it can be a disheartening process to regularly receive a listing of their child’s misbehaviours throughout the day. In most situations, it is unnecessary to report the daily incidences of non-compliance, off-task behaviour, and other occurrences if these are an ongoing or typical component of the child’s behavioural profile.

There will be times when reporting and discussion of behaviour are necessary and unavoidable. When significant behavioural incidents occur, they must be reported to parents. However, the communication book is not the forum for sharing this kind of information. The principal decides how this information is to be shared with parents, and often assumes this important role.

In composing the content of daily communication, it can be helpful to ask yourself these questions: What if the communication book became lost and was found by another student or a stranger? Would the child’s or the family’s dignity or privacy be compromised?

Remember to report positive information as often as possible. This can have a significant impact on the quality of a family’s evening or weekend.
While it will take a few extra minutes each week to manage the home/school communication process, the responsive and responsible reporting of the events of a student’s days at school makes a positive contribution to both the home and the school experience. Parents feel informed, supported, and more able to support the learning needs of their child.

Individual Learning Profile

Decisions about what to teach or how to teach an individual student should not be based solely on the diagnosis of ASD. No one method or intervention will meet the needs of all students with ASD, as individual students differ in their abilities and their needs vary considerably (National Research Council, 2001).

Some students with ASD may have developmental delays or an intellectual disability and experience challenges with a number of basic, pre-learning, developmental skills, including imitation, joint attention, and generalization, while others may have much
more highly developed skills. Program planning for students with ASD, as for all students with special education needs, should be individualized and focused on developing skills that will be of use in the student’s current and future life in school, home, and community. This requires careful planning, preparation, and teamwork so that the programs provided are appropriate and effective for the individual student.

Determining the educational interventions that may be required to meet the learning needs of students with ASD begins with an understanding of the unique learning profile of each student. This requires consideration of information from a range of sources, such as the following:

- data and reports from assessments
- observations of skills and behaviours through the student’s participation in assignments, activities, tasks, and projects
- Ontario Student Record (OSR)
- information and reports provided by parents, former teachers, and other involved professionals, such as service providers from outside the school system

In developing the learning profile for a student with ASD, it is important to consider information gained from observations of the student. Observations should be as objective and descriptive as possible and avoid value judgements. In particular, educators should note the student’s:

- progress towards learning outcomes;
- behaviours and interactions that occur in the school and classroom environment, including recess and lunchtime;
- age and social appropriateness of interactions with peers and adults;
- social language skills;
- reactions to the learning environment and the setup of the classroom;
- responses to transitions in the school day – between activities in the classroom, for example.

Unusual developmental profiles are common for students with ASD, and therefore careful documentation of a student’s unique strengths and weaknesses is necessary and can have a major impact on the design of effective intervention programs.
Assessment

Assessment information from various sources will need to be considered to develop individual learning profiles and establish appropriate educational programs for students with ASD. Comprehensive assessments are necessary to recognize and understand the various strengths and needs of individual students. It is important that generalizations or unrealistic expectations about overall abilities are not made on the basis of the diagnosis, individual skill impairments, or splinter skills.

Assessment data and results that have been gathered across a diverse range of skills by a variety of professionals will provide comprehensive information that will be useful in making accurate decisions about programs for students. A diagnosis of ASD is associated with impairments in communication, social, and behavioural skills, and multidisciplinary assessments in these skill areas will provide information that will be used to determine the extent of the impairments and how the difficulties interfere with the educational process.

When a student in whom ASD is diagnosed is first enrolled in school, parents should be invited to participate in a transition planning process that includes the sharing of any relevant assessment information with the school. This information will be considered in:

- determining the student’s strengths and needs;
- deciding learning goals for the student;
- making decisions regarding programs, services, and supports that may be required to meet the student’s needs;
- establishing records against which to measure future achievement.

Parents should be encouraged to participate in an ongoing process of sharing any relevant, updated assessment information with the school.
Assessment of student progress by a classroom teacher is a continuous, complex process that is an integral part of the learning-teaching process every day. Teachers use a variety of methods to gather information about a student’s achievement, the level of the student’s understanding, and the effectiveness of a particular teaching technique. Examples of classroom-based assessment methods that are used by teachers on a regular basis to assess student learning include the following:

- observations
- teacher-designed tasks
- interviews with the student
- criterion-referenced academic tests
- functional assessments

During the school day, there are ongoing opportunities for teachers to assess students across a variety of settings and situations. The information and data collected by teachers are primarily used for planning programs that will be appropriate to each student’s strengths, interests, needs, and level of functioning.

The choice of assessment instruments is a complex one and depends on the student’s:

- verbal skills;
- ability to respond to complex instructions and social expectations;
- ability to work rapidly;
- ability to cope with transitions in test activities.

(National Research Council, 2001:28)

The responsiveness of a student with ASD to an assessment task may be affected by the novelty and structure of the assessment situation. Consideration should be given to the possibility that the results of an assessment may indicate the student’s response to the assessment task or situation and may not be an accurate reflection of the student’s abilities.
Assessment accommodations may be required to allow the student with ASD the opportunity to demonstrate achievement of specific skills or expectations. Examples of assessment accommodations that may be required for students with ASD include providing:

- visual supports to clarify verbal instructions;
- additional time for student responses;
- alternative methods for the student to demonstrate achievement of skills;
- alternative environments for assessment tasks.

An effective assessment process is continuous and includes ongoing, systematic data collection that is necessary to:

- monitor student progress;
- evaluate instructional effectiveness;
- update goals as a student learns and masters a skill.

Information about skill development in multiple areas of functioning should be considered when decisions are made about students’ programs. This would include collecting and analysing data and other information related to progress within various skill areas such as communication, social, and behavioural skills.

It is important to consider the following when assessing the academic skills of students with ASD:

- Recognize that verbal responses may be the most difficult and least accurate.
- If a verbal response is required, do not insist on eye contact.
- Provide the student with methods to answer questions non-verbally, if possible. For example, provide Yes/No or True/False cards that the student can touch or point out to indicate the answer.
- Allow the student several readings of a passage before asking comprehension questions.

This may include reading the passage to the student.

- Begin an assessment process by starting with material two or more grades below the ability level of the student. Gradually work up to the student’s level.
- Provide the student with sample questions to practise with the assessment format.
- Allow the student to answer questions using the computer.

TIPS FOR TEACHERS

- Recognize that verbal responses may be the most difficult and least accurate.
- If a verbal response is required, do not insist on eye contact.
- Provide the student with methods to answer questions non-verbally, if possible. For example, provide Yes/No or True/False cards that the student can touch or point out to indicate the answer.
- Allow the student several readings of a passage before asking comprehension questions.

An effective assessment process is continuous and includes ongoing, systematic data collection that is necessary to:

- monitor student progress;
- evaluate instructional effectiveness;
- update goals as a student learns and masters a skill.

Information about skill development in multiple areas of functioning should be considered when decisions are made about students’ programs. This would include collecting and analysing data and other information related to progress within various skill areas such as communication, social, and behavioural skills,
in addition to academic skills. For example, students with ASD often exhibit behaviours that are unusual or disruptive to the learning process. A systematic assessment process such as a functional behaviour assessment should be followed to determine the purpose of the behaviour, identify contextual factors that may be triggering the unusual or problematic behaviour, and evaluate the effectiveness of intervention strategies. Further information about functional behaviour assessments is found in Chapter 3 of this guide.

Multidisciplinary assessments include those conducted by qualified professionals, such as psychologists, speech-language pathologists (SLPs), and occupational therapists (OTs) who are staff within the school board or from the Ministry of Health and Long-Term Care, such as OTs from Community Care Access Centres (CCACs). In many cases, parents obtain assessments for their children from external institutions, agencies, or practitioners and provide consent for this information to be shared with the school.

Assessment information from various sources will provide valuable information to guide the development of the student’s Individual Education Plan (IEP) and assist in the continuous process to determine educationally relevant goals, objectives, and implementation strategies that are based on the unique learning profile of the individual student.

The Individual Education Plan (IEP)

Many students with ASD will be identified by an Identification, Placement and Review Committee (IPRC) as exceptional students under the Communication–Autism category. As described in Special Education: A Guide for Educators (Ontario Ministry of Education, 2001), the definition that the IPRC considers in determining the exceptionality of Communication–Autism is:

A severe learning disorder that is characterized by:

a) disturbances in:
   - rate of educational development
   - ability to relate to the environment
   - mobility
   - perception, speech, and language

b) lack of representational symbolic behaviour that precedes language.

The IPRC will determine the most appropriate placement to meet the individual needs of students with ASD who are identified as exceptional pupils. Parents and students (if 16 years of age or older) are invited to attend the IPRC meetings and participate in the committee discussions. A range of placement options and services should be available for students with ASD to address the broad range of needs of these students. The needs of many students with ASD are met in regular class placements with appropriate supports. Other students require placement in special education classes for all or part of the school day.

The IEP is a written program plan that describes the special education program and/or services required by a student on the basis of a thorough assessment and understanding of the student’s strengths and needs. The information gathered to understand a student’s individual learning profile will be an important resource in the development of an appropriate program plan for the student. The IEP should be reviewed and updated regularly, at least once in every reporting period, and based on ongoing and continuous evaluation of the student’s progress.
The IEP is a working document that identifies the accommodations that are required to help the individual student achieve learning expectations and demonstrate learning. The IEP also identifies the modified or alternative learning expectations, where appropriate, that are planned for a student’s educational program and the specific knowledge and skills to be assessed and evaluated for the purpose of reporting student achievement.

It is helpful, for purposes of planning and IEP development, to classify the subjects or courses and alternative programs in which the student will receive instruction according to the following categories, as appropriate to the student’s individual requirements:

- No accommodations or modifications
- Accommodated only
- Modified and/or
- Alternative.

**Accommodations** are the special teaching and assessment strategies, human supports and/or individualized equipment required to enable a student to learn and demonstrate learning. Accommodations do not alter the provincial curriculum expectations for the grade. **Modified expectations** differ in some way from the regular grade expectations as outlined in the Ministry of Education’s curriculum policy documents. **Alternative expectations** are developed to help students acquire knowledge and skills that are not represented in the Ontario curriculum.


For some students with ASD, the most appropriate program is based on expectations from the Ontario curriculum with minimal or moderate accommodations or modifications. Other students may require a program that includes significantly modified expectations or is mainly composed of expectations that are an alternative to the Ontario curriculum. Educational
goals for students with ASD often need to address social, communication, and adaptive skills that are not part of standard curricula (National Research Council, 2001). For many students with ASD, the most effective education program includes a combination of instructional goals based on the Ontario curriculum with accommodations or modifications, as required, and includes alternative programs with specific goals and activities to support the development of functional skills that are useful and meaningful for the student.

Parents and relevant school board and community personnel who have previously worked with and/or are currently working with the student should be invited to provide input and participate in the IEP process. This may include, but is not limited to, consultations with current and previous teachers, the principal, the student, a psychologist, special education staff, an OT, service providers from community agencies, and autism program providers, as appropriate.

All members of the IEP team have important roles and responsibilities in the IEP process. It is important that the teacher(s) responsible for the direct instruction and assessment of the student’s progress work collaboratively with parents and other involved professionals to determine the student’s programming needs and appropriate learning expectations.

Effective educational programming for students with ASD should be based on a student’s abilities and gradually increase in complexity as skills develop. In order to achieve this, programs should be carefully planned and constantly evaluated using a variety of formal and informal assessments. The program should then be modified on the basis of assessment results and student progress.

Collaborative Planning

A collaborative planning approach to support students with ASD is most effective and promotes the best outcomes for students. Keeping this in mind, it is important for school staff to invite input from and the participation of the parent(s) and, with parental consent, other professionals who have previously worked with and those who are currently working with the student. Students with ASD have a broad range of needs and abilities. The perspectives, information, and resources from parents and various in-school, school board, and community professionals will enhance the effectiveness of the program planning process.

Many school boards in Ontario have established school-based support teams that play a significant role in helping teachers to plan and implement programs for students with special learning needs. The school team is made up of school staff members who work together with the family to collaborate, consult, and share information and knowledge to identify strategies that may increase the student’s learning success. As circumstances require, the team may also seek assistance from other resources, such as the following:

- community associations and agencies (such as Autism Ontario)
- service providers from the Ministry of Health and Long-Term Care (such as CCACs, which coordinate service providers such as OTs)
- service providers from the Ministry of Children and Youth Services (such as staff of the regional autism service provider agencies)
- Children’s Treatment Centres (CTCs)
- Children’s Mental Health Centres

Multidisciplinary teams composed of professionals with expertise in a variety of areas have also been developed by some school boards to provide additional support to schools in the planning
of effective programs for students with ASD. The membership of the multidisciplinary team could include a consultant, an SLP, a psychologist, an OT, and others who have the experience and knowledge to provide information, resources, and recommendations related to meeting the needs of students with ASD.

Through working collaboratively with other individuals, staff are able to better understand a student’s learning profile and become aware of interventions that have successfully supported other students or the student in other environments. With this knowledge, staff can plan appropriate program goals and interventions for the student.

Some school boards have found it helpful to develop protocols with local community agencies to identify responsibilities and processes for working together. These local agreements are used to support collaborative partnerships by identifying and resolving issues that may arise. Collaborative efforts will be enhanced and most effective when those involved are committed to working together for the best interests of the student.

Students with ASD often experience difficulty with change. Establishing consistent practices is promoted through collaborative planning and may help to alleviate some of the challenges for students during transitions such as entry to school and between grades. Education strategies and practices are most effective if they are implemented across various settings, including the home, school, and community (Iovannone et al., 2003).
Universal Design for Learning

*Education for All* (Ontario Ministry of Education, 2005a), provides educators with recommendations on a broad range of techniques to enhance the instruction of students with special education needs, including those with ASD.

The report provides information on the use of the principles of Universal Design for Learning (UDL) and differentiated instruction to plan for and respond to students with various needs. Learning is a continuum and every student is a unique learner. Flexible, supportive, and adjustable classrooms and programs must be planned and developed to meet the learning needs of individual students. These are important considerations in the planning of programs for students with ASD.

UDL is recommended for consideration by teachers to guide the planning of the various components of teaching, such as defining the expectations of learning situations and determining the teaching strategies and assessment methods that will be required. Programs designed according to the core concepts of UDL are based on considerations of the following:

- universality and equity
- flexibility and inclusion
- an appropriately designed space
- simplicity
- safety

**Universality and Equity**

Teachers are encouraged to develop a class profile to identify the strengths, challenges, and needs of all students and to determine the stage that each student has reached in his or her learning. The instructional methods and classroom accommodations should be planned to ensure that the needs of all students are met.

For additional information on Universal Design for Learning, see *Education for All: The Report of the Expert Panel on Literacy and Numeracy Instruction for Students With Special Education Needs, Kindergarten to Grade 6* (Ontario Ministry of Education, 2005a).
Students with ASD vary in their cognitive level, communication ability, social skills, and behavioural characteristics. They have a wide range of skills and diverse needs. It is important for teachers to gather information to understand the individual strengths, needs, and interests of students to identify appropriate curriculum expectations, required accommodations, and effective instructional approaches.

**Flexibility and Inclusion**

To ensure that all students are provided opportunities for real learning experiences, flexibility and options should be built into the planning of teaching strategies, materials, and student activities.

The ability of students with ASD to participate in or respond to a learning experience may be affected by limitations in communication and social skills. Consideration of the likes, dislikes, strengths, needs, and interests of a student with ASD can help to make materials and tasks more engaging and provide motivation for the student to participate in and complete the desired task or activity. Concrete examples and hands-on activities provide students with opportunities to learn by seeing and doing and have been found to increase the motivation and engagement levels of students with ASD. For example, a student who has difficulty with concepts in mathematics may be motivated to learn graphing techniques by gathering data on items of personal or special interest.

Many students with ASD have difficulty processing information and are unable to respond immediately and “on demand” to expected tasks. They often require flexibility regarding the timing and method used to demonstrate their knowledge and skills. Teachers will need to consider the various alternatives, such as extended timelines and additional activities that may need to be planned to ensure that appropriate learning experiences are provided for all students.

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**Student engagement increases the learning opportunities for the student and has been found to be one of the best predictors of positive student outcomes (Iovannone et al., 2003).**
An Appropriately Designed Space
Consideration should be given to the size, space, and arrangement of the physical and visual elements in the learning environment to ensure that they are conducive to student learning.

Students with ASD may be unusually sensitive to sensory stimulation, which can be reflected in an increased sensitivity to the physical environment of the learning situation. The classroom is filled with many sensory demands that can be overwhelming for some students. Although some of these demands, such as noise in the hallway and fire alarms, are unpredictable, teachers should monitor the physical environment to ensure that the sensory distractions (such as auditory and visual stimuli) for a student with ASD are minimized as much as possible. For example, tennis balls can be used to cover the bottoms of chair legs to reduce classroom noise.

Some students with ASD are very aware of and need to know where things belong. The organization of materials, furniture, and resources should be carefully considered in relation to their effect on the learning environment of the student with ASD.

Simplicity
Teachers should ensure that the information provided in learning situations is presented clearly and is easily understood by the students. Unnecessarily complex and distracting information should be reduced as much as possible.

The communication impairments that are often present in students with ASD may affect their ability to process verbal information. They will often have difficulty understanding complex, abstract language and may misinterpret metaphors, slang terms, and colloquialisms. Effective methods to simplify information and make it easier for the student to understand include using clear and concise language, breaking instructions and tasks into smaller steps, and using visual supports, such as written or picture schedules. Information and materials should be organized in such a way that important or key components are highlighted and easily identified by students.
**Safety**

Teachers need to consider possible safety hazards and elements with the potential to cause accidents in the classroom. Staff should be aware of and able to act on any safety assessments, safety plans, or safety protocols that may apply to specific students in the classroom.

If a student with ASD is considered to be a safety risk in the school setting, adults involved with the student need to have access to the information and supports that are required to ensure a safe learning environment. A safety assessment can help to identify the factors that may lead to or cause situations and provide an assessment of the potential risks in given situations. A safety plan outlines the appropriate responses and supports that are required during specific situations with students.

**Planning for Transitions**

Common characteristics associated with a diagnosis of ASD are restricted, repetitive patterns of behaviour, interests, and activities. Many individuals with ASD have difficulty coping with novel and unexpected events. Change, including transitions between activities and environments, is often difficult for students with ASD and can lead to increased anxiety and unusual or inappropriate behaviours.

In school, transitions happen at various stages and levels for students. Some transitions occur on a regular basis between activities and settings within the routines of the school day. Other transitions, such as class excursions, occur less frequently. Significant transitions such as entry to school, between grades and divisions, from elementary to secondary school, and from secondary school to the postsecondary destination happen periodically, are more complex, and include significant changes to many aspects of a student’s routines.

Planning for transitions provides the foundations for successful transition experiences that help a student learn to cope with change and adapt to a variety of settings. Transitions cannot be avoided,
but helping a student to be prepared for and adjust to change and transition can help to reduce or avoid some of the anxiety and unusual or inappropriate behaviours that they may cause.

### FACILITATING TRANSITIONS

<table>
<thead>
<tr>
<th>To facilitate transitions:</th>
<th>Examples</th>
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</table>
| Begin preparing the student well in advance of the expected transition. | • A calendar is used daily to count down the days until a class trip.  
• Pictures and stories of the trip destination are reviewed for several days prior to the trip. |
| Plan transition steps to allow the student to gradually become familiar with change. | • A schedule of visits is arranged for the student to adjust to the new school. Scheduled timelines and things to see are increased for each visit. |
| Use consistent cues or routines to signal transitions.          | • A “transition object” is carried by student during the move to the next class.  
• The same song or phrase is heard by student before the start of a routine activity. |

Transition planning for students with ASD should begin well in advance of the expected change for the student. The planning can be complex and requires communication and coordination between those who will be involved in the transition process. Effective planning for significant transitions usually includes parents and staff from the school, school board, and community agencies who are and who will be involved with the student.

For additional information on transition planning, see:

- Ontario Regulation 181/98, *Identification and Placement of Exceptional Pupils*
Parents should be involved in the sharing of information, collaboration, planning, and process that may be required to ease or facilitate significant transitions for a student. Parents can help to identify changes to routines or settings that may be difficult for the student. They can also help to support successful transitions by assisting in determining an effective transition process for an individual student or building skills and/or routines to familiarize the student with different expectations in the new setting.

The purpose of transition planning is to determine the considerations, goals, and actions that will be required to support the student in making a positive transition to the new setting and experiences. It also provides an opportunity for those within the new setting to become familiar with and prepare for the student.
A wide range of strategies and approaches is available to support the teaching and learning process for students with ASD. Integrating a variety of approaches leads to the development of programs that promote the best outcomes for students.
The National Research Council (2001) found that no one specific method or intervention is effective for all individuals with ASD and that integrating a variety of approaches leads to the development of programs that promote the best outcomes for students.

**Differentiated Instruction**

As recommended in *Education for All* (Ontario Ministry of Education, 2005a), teachers can effectively respond to a learner’s needs and strengths through the use of differentiated instruction. Through this approach, the specific skills or difficulties of students with ASD can be addressed by employing a variety of methods to differentiate (or vary) the following:

- **The content:** The depth or breadth of the information or skills to be taught.

- **The processes:** The instructional approaches used with the student, as well as the materials used to deliver or illustrate the content.

- **The products of the learning situation:** What the end product will be or look like. This product may be tangible (a worksheet, project, composition), a skill that has been acquired, or knowledge that has been gained.

To determine the most effective strategies for students in a learning situation, it is necessary to consider the learning goals for the student in the context of the following questions:

- **What** do we want the student to learn? What essential skills or understandings do we want the student to acquire?
- **Why** is the student learning this? How does the learning goal fit into the goals outlined in the IEP for the student?
- **How** will the student best learn this? What type of activities, materials, and supports are appropriate and effective for the student? How will the student demonstrate learning?
To differentiate instruction, teachers should consider adaptations to the curriculum, instruction, or expectations that may be required according to a student’s readiness, interests, and learning profile.

### DIFFERENTIATED INSTRUCTION

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<th>Elements that can be varied to differentiate learning activities</th>
<th>Examples of differentiation for students with ASD</th>
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<tbody>
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<td><strong>Student groupings</strong></td>
<td>• Establish multiple or similar ability grouping.</td>
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<tr>
<td></td>
<td>• Divide groups according to similar interests.</td>
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<td></td>
<td>• Clearly define the role for each student in a group (e.g., note-taker, reporter, artist).</td>
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<tr>
<td><strong>Instruction activities</strong></td>
<td>• Support verbal information with visuals.</td>
</tr>
<tr>
<td></td>
<td>• Include explicit (or direct) teaching of information.</td>
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<td></td>
<td>• Provide opportunities for the student to practise and rehearse.</td>
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<tr>
<td><strong>Level and type of support provided to the student</strong></td>
<td>• Include tasks that the student can participate in or complete independently.</td>
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<td></td>
<td>• Provide opportunities for peer support through small-group activities.</td>
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<tr>
<td></td>
<td>• Have more intensive levels of assistance available as required.</td>
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<tr>
<td><strong>Task expectations (time, type of task)</strong></td>
<td>• Build in flexible or extended timelines for task participation and completion.</td>
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<td></td>
<td>• Chunk longer activity into smaller segments (e.g., divide a 45-minute activity into several shorter sections).</td>
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<td></td>
<td>• Encourage use of technology to complete a task (e.g., keyboarding for written tasks).</td>
</tr>
<tr>
<td><strong>Materials and resources</strong></td>
<td>• Match materials and resources to the readiness level, interests, and learning profiles of students (e.g., a student with keen interest in vehicles collects data on cars in a parking lot and graphs results).</td>
</tr>
<tr>
<td><strong>Assessment activities</strong></td>
<td>• Provide a variety of opportunities and ways for the student to demonstrate learning.</td>
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<td></td>
<td>• Allow alternatives to written tasks, such as drawings, fill-in-the-blank activities, questions with multiple-choice answers, pointing to the correct answers, scribing.</td>
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<tr>
<td></td>
<td>• Include visual supports such as graphic organizers or highlighting of key words.</td>
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</table>
Differentiation involves an ongoing process of monitoring student response to the differentiated strategies and evaluating student progress on a regular basis. Strategies that are found to be effective for a student during one activity may be less effective over time or during another activity. The level and type of differentiation will need to be varied according to the student’s response and progress. Data from assessments and observations should be used to inform decisions about the effectiveness of methods being used and further differentiation that may be required.

Visual Supports

The use of visual supports is one of the most widely recommended strategies for teaching students with ASD, as they usually process visual information more efficiently and effectively than information that is presented verbally. Some students may require extra time to process verbal language and understand the message. Speech is transient: once information or instructions have been spoken, the message is no longer available and students must recall the information from memory.

Visual images help students to understand information as they provide a source that can be referred to as often as necessary and for the length of time that is required in order to process the content of the information.

Visuals are mainly used to:

- **Improve communication:** provide a reminder or cue of what to say or do in a situation
- **Provide information:** supplement or provide an alternative to verbal information

For additional information on differentiated instruction, see *Education for All: The Report of the Expert Panel on Literacy and Numeracy Instruction for Students With Special Education Needs, Kindergarten to Grade 6* (Ontario Ministry of Education, 2005a).
**Support routines:** provide a method to organize or schedule the sequence of activities

**Teach skills:** clearly delineate content or skill expectations and become a source that can be referred to as required

**Prevent problems:** present choices and behavioural alternatives

**Intervene when there is a problem:** provide a clear, consistent, familiar response (Hodgdon, 1999; Quill, 1995)

### VISUALS

<table>
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<tr>
<th><strong>Purpose of visual</strong></th>
<th><strong>Examples of visual supports</strong></th>
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<tr>
<td>Prompt for transitions</td>
<td>Visual schedule, card with symbol of next activity</td>
</tr>
<tr>
<td>Provide directions or instructions</td>
<td>List of written expectations</td>
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<tr>
<td>Break tasks into easier to understand steps</td>
<td>Series of pictures to demonstrate steps required</td>
</tr>
<tr>
<td>Provide structure and predictability to routines and activities within the student’s day</td>
<td>Daily schedule or calendar</td>
</tr>
<tr>
<td>Assist in organizing the environment</td>
<td>Labelled objects</td>
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<tr>
<td>Support appropriate behaviour</td>
<td>Cue cards (e.g., STOP), stories, or written behavioural routines and expectations</td>
</tr>
<tr>
<td>Develop choice-making skills</td>
<td>Choice board with pictures of options, or a written list for students who have reading skills</td>
</tr>
</tbody>
</table>
“There is a behaviour-communication-visual link:

- The causes of behaviour difficulties are frequently related to communication difficulties: problems in understanding and/or difficulty with expression.
- The remedy to improve behaviour is improving communication.
- The method is using visual strategies to support communication.”
(Hodgdon, 1999)

When planning an activity, it is important to consider ways the information can be presented in a simple, visual format that may be effective for a student with ASD to comprehend.

Visual supports can vary according to the ability of the student to recognize and understand the connection between the visual and the intended message.

In order for visual aids to successfully help a student to learn, they must match the student’s level of comprehension. Some students require very basic, concrete visual objects while others understand and respond to more abstract symbols or written language. Using line drawings or symbols for a student who can comprehend only real objects will cause frustrations for both the student and the teacher. The visuals being used must be easily and quickly recognized by the student. The goal of using visuals is to help a student understand or convey information. Visual supports are helpful to many students with ASD, including those who are able to read efficiently.
Visual supports can include visual schedules, checklists, task exemplar sheets, choice boards, illustrated task sequences, printed instructions, rules or topical/content materials, tip sheets, safety signs and messages, videos, and story illustrations, as well as illustrations based on theme content (e.g., the Pioneer Unit).

These are two effective methods of visual support:

1. **Passive modelling** (Biederman et al., 1998): Students are able to see what is expected in a task by being provided with visual examples and demonstrations of how tasks are performed. Instructional language is reduced as much as possible.

2. **Video modelling** (Bellini & Akullian, 2007): Further to and building on the concept of passive modelling, video modelling provides the students with a video example of how tasks are performed and task sequences. This format allows the student to watch the instructional sequence over and over.

In terms of practice, both passive modelling and video modelling are viable tools. Through the use of a digital camera, short instructional sequences on CD-ROMs can be prepared quickly and easily. These sequences can be a powerful addition to other instructional methods and materials.

Visual supports are usually simple and inexpensive. They will be most effective for a student with ASD if they are used consistently and across various settings. For example, a visual schedule used at home to organize the after-school activities for a student will be easier for the student to understand and use if it is referred to daily and follows a format similar to the one used at school to structure the student’s school day.

**Structured Learning Environment**

All children function better in a predictable environment. Students with ASD require a structured learning environment to know what is expected of them in specific situations, to assist them in anticipating what comes next, and to learn and generalize a variety of skills (Iovannone et al., 2003). Rules and expectations
should be clear and consistent and include specific information regarding the expectations for appropriate behaviour.

Strategies for structuring the learning environment for a student with ASD include:

- Posting the student’s individual rules or guidelines, as well as classroom rules, in a visually accessible location (e.g., beside the student’s desk or workspace)
- Providing clear information about task expectations
- Introducing new or unfamiliar tasks in a familiar environment
- Establishing routines and regularly scheduled activities
- Developing a visual schedule of activities
- Providing warnings before transitions or changes to routines
- Having specific places where materials are stored
- Following a consistent work system

It is also important to structure the physical environment so that it is organized with “a place for everything and everything in its place”. The student’s seating arrangement needs to be consistent and in a location that affords as few distractions or exposure to sensory irritants as possible. It may be necessary to do environmental scans in all areas of the school that the student will access (e.g., the gym, library, music room) to determine what elements may have an impact on the student’s ability to participate effectively. Appropriate accommodations can then be made to the environment.

Developing as much consistency as possible in the environment, schedule, and instructional approaches provides structure and routines that may increase the comfort level and reduce anxiety for students with ASD. However, there are situations in which changes to the environment and routines during the school day are inevitable. Providing students with what they need to be prepared for these changes, such as advance warnings and concrete visual information, can help them to become more flexible and adaptable to change. Once students know the expectations of their visual schedule and transition system, flexibility training can be built into the process.
Recording changes in the student’s visual schedule and providing opportunities for the student to rehearse and review upcoming changes have been found to be effective in preparing students with ASD for changes to the learning environment and routines.

For example, if the student’s regularly scheduled gym class is cancelled because the gym is being used for another activity, the student will need preparation to understand this change. The change could be explained to the student and visually recorded in the student’s daily schedule with an alternative activity, ideally one that is highly preferred by the student. Involving the student in making the change to the visual schedule and visiting the gym to see the other activity being set up may help the student to understand the change.

Students with ASD are most successful in an organized environment that is structured to be as predictable and understandable as possible.

**Assistive Technology**

In *Education for All* (Ontario Ministry of Education, 2005a), assistive technology is defined as any technology that allows one to increase, maintain, or improve the functional capabilities of an individual with special learning needs (Edyburn, 2000). Its applications and adaptations can help open doors to previously inaccessible learning opportunities for many children with special needs (Judge, 2001).

Assistive technology includes highly technical (commonly referred to as “high-tech”) computerized devices such as speech generating software, as well as less technical (“low-tech”) resources such as visual supports. Technology can be used by students to provide alternative methods to access information, demonstrate and reinforce learning, and interact with others. It can also be used by adults as a tool to support the teaching and learning process.
A research study investigating the use of assistive technology with students with ASD in British Columbia (Randle, 2005) used a survey to identify a wide variety of uses of technology that include supporting the following:

- written output
- academic concept development
- motivation
- communication
- the development of social skills

As the learning needs of students with ASD are diverse, it is important that a student’s specific technological needs be evaluated and that the use of assistive technology be carefully planned. The potential benefits of assistive technology for individual students should be considered from a multidisciplinary and cross-curricular perspective. For example, technology that is used to support a student’s communication skills may also be found helpful to accommodate a student’s fine motor difficulties and increase written output.

The support that is provided through the use of assistive technology will change over time for a student and may vary across activities. For example, a student may require the use of text-to-speech software to support the understanding of information in one subject area, but may not require it to read and understand materials on a topic of interest.
Ongoing monitoring of students’ needs and use of assistive technology is important to determine if the technology is being used effectively and is providing the student with the intended support. Collaboration between parents and professionals will help to ensure that the technology that is being used is appropriate to meet the needs of the student and is as multi-functional as possible.

**Sensory Considerations**

Students with ASD vary in their sensitivity and tolerance to sensory stimulation in the environment. It is important to be aware of the sensory preferences or sensitivities of a student and to determine possible elements in the environment that might have an impact on a student’s learning and level of anxiety.

Some students are very (“hyper-”) sensitive in one or more sensory areas and may be more comfortable in environments with reduced levels of sensory stimulation. Other individuals are under (“hypo-”) sensitive and seek enhanced sensory experience. For example, some students become anxious or upset because of an extreme sensitivity to certain sounds or have a difficulty processing more than one sense at a time. Other students seek additional sensory experiences in order to become or maintain calm.

It is usually possible to determine strategies or accommodations that are effective to manage sensory issues. In some cases,
environmental accommodations can be made quite easily. In others, students can be taught socially appropriate ways to access sensory materials and experiences. Proactive strategies to manage sensory issues include:

- providing predictable, scheduled breaks for sensory input;
- providing a variety of sensory materials and/or equipment that will mitigate a student’s particular sensory needs;
- using engagement in sensory activities as reinforcement for task completion and other classroom requirements or expectations;
- performing environmental scans across all environments in a school that the student may access in order to determine possible sensory irritants and make adjustments accommodations as appropriate.

Parents are a valuable resource in providing detailed information about their child’s sensory issues. OTs are usually involved in determining the sensory-based activities and materials that will enable a student to regulate his or her arousal level and associated behaviour.

<table>
<thead>
<tr>
<th>Sensory Domain</th>
<th>Hyposensitivity (Seeking Behaviour)</th>
<th>Intervention Strategies</th>
<th>Hypersensitivity (Avoidance Behaviour)</th>
<th>Intervention Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual</td>
<td>The student likes to look at spinning objects, flicks fingers, rocks, is attracted to lights</td>
<td>Schedule times in the day for the student to have access to visually stimulating materials</td>
<td>The student closes eyes, rubs eyes, is attentive to details, has good visual memory</td>
<td>Maintain visually well-organized environment, ensure visual clarity within tasks</td>
</tr>
<tr>
<td>Auditory</td>
<td>The student enjoys noisy environment, machines, running water, flushing, loud music</td>
<td>Provide headphones for listening to music, access to musical instruments, environmental sound CDs</td>
<td>The student makes repetitive noises, avoids specific sounds, is a light sleeper</td>
<td>Provide headphones to block sounds; encourage student to listen to soft, peaceful music; provide a quiet workspace</td>
</tr>
<tr>
<td>Sensory Domain</td>
<td>Hyposensitivity (Seeking Behaviour)</td>
<td>Intervention Strategies</td>
<td>Hypersensitivity (Avoidance Behaviour)</td>
<td>Intervention Strategies</td>
</tr>
<tr>
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</tr>
<tr>
<td>Tactile (Touch)</td>
<td>The student likes to touch people and things, bumps into others, may be self-injurious, has little reaction to pain</td>
<td>Provide items with a variety of tactile qualities, e.g., koosh ball, sand, water, velvet, satin</td>
<td>The student may tolerate a limited number of fabrics, resists physical contact, is upset by crowds</td>
<td>Accommodate clothing issues to the extent possible, respect personal space and comfort level</td>
</tr>
<tr>
<td>Olfactory (Smell)</td>
<td>The student may try to smell people and things</td>
<td>Provide a “Smelly Book” (spices, flavourings, etc.) as a reward or leisure activity</td>
<td>The student avoids people and places (e.g., washroom) that have an odour</td>
<td>Provide an alternative item to smell in difficult locations, provide access to a different washroom, never wear perfume</td>
</tr>
<tr>
<td>Gustatory (Taste)</td>
<td>The student may ingest inappropriate objects, likes strong tastes, may focus on particular foods</td>
<td>Schedule specific times for food to be eaten, do not focus on food variety as a necessity, consider nutritional value</td>
<td>The student prefers bland foods, has active gag reflex, tastes foods cautiously</td>
<td>Consult with the parents to see if a nutritionist or other professional is involved</td>
</tr>
<tr>
<td>Vestibular (Balance and movement)</td>
<td>The student enjoys and needs movement; may enjoy spinning, jumping, and bouncing</td>
<td>Provide opportunities for gross motor activity and access to equipment (trampoline, rocking chair, etc.)</td>
<td>The student may have low muscle tone, avoids gym equipment and movement, has difficulties with balance</td>
<td>Obtain input from an OT, if necessary, to assist in creating a strength-building program; provide opportunities for movement</td>
</tr>
<tr>
<td>Proprioceptive (Awareness of the body and its spatial boundaries)</td>
<td>The student seeks deep pressure, asks for or seeks hugs, walks on toes, grinds teeth or chews inedible things</td>
<td>Consult with an OT regarding items to provide pressure (weighted vest, stress ball, etc.), schedule physical activities (jumping, running, etc.), accommodate need for tight-fitting clothing</td>
<td>The student has poor body awareness, avoids pressure, appears to be clumsy and weak</td>
<td>Provide opportunities for swimming and other exercise</td>
</tr>
</tbody>
</table>
Applied Behaviour Analysis (ABA)

As outlined in Policy/Program Memorandum No. 140, “Incorporating Methods of Applied Behaviour Analysis (ABA) into Programs for Students with Autism Spectrum Disorders (ASD)”, 2007, ABA is an effective approach to understanding and changing behaviour, and teaching new skills. ABA uses methods based on scientific principles of learning and behaviour to build useful repertoires and reduce problematic ones. In this approach, the behaviour(s) to be changed are clearly defined and recorded, and the antecedents and reinforcers that might be maintaining an undesirable behaviour, or that could be used to help develop alternative or new behaviours, are analysed. Interventions based on principles of learning and behaviour are then designed and implemented to develop appropriate behaviours. Progress is assessed and the program is altered if necessary (adapted from Perry, A. & Condillac, R., 2003).

ABA can be used as an instructional approach with students of every age. It can be applied in a variety of situations, and it can be employed for very limited and specific purposes such as the development or reduction of single behaviours or sets of behaviours. ABA methods can be used with varying degrees of intensity along a student learning continuum. ABA is used according to the individual needs of each student, and may be applied to developing academic skills or behaviours related to social skills, communication, or self-care.

The focus in an instructional approach that uses ABA is on measuring and tracking behaviours over time, determining the function of the target behaviour (for the student), and altering the behaviour (either increasing or decreasing its occurrence) by providing intervention. Student progress is based on ongoing data collection and assessment, as measured against the identified objectives. The ultimate goal of using ABA methods is the generalization of the learned skills and behaviours to other settings and situations.
ABA methods can be used to:
- increase positive behaviours;
- teach new skills;
- maintain behaviours;
- generalize or transfer behaviour from one situation to another;
- restrict or narrow conditions under which interfering behaviour occurs.

Examples of teaching strategies using ABA methods include prompts, modelling, reinforcement, task analysis, forward chaining, backward chaining, Discrete Trial Training, and shaping. These are discussed below.

Prompts: Prompts are cues or assistance to encourage the student to provide the desired response. There are many natural prompts in the environment, for example, seeing the school bus

In practice, using methods of ABA involves a number of discrete steps:

**Step 1:** Clearly define the behaviour to be changed and the goals and objectives for changing the student’s behaviour. It is important to focus on behaviours that can be observed, measured, and tracked over time.

**Step 2:** Evaluate and record current levels of performance for the targeted skills and behaviours to establish a baseline.

**Step 3:** Design and implement appropriate interventions. Interventions should be based on an analysis of the antecedents (what comes before behaviour) and reinforcers (what comes after behaviour) that might be maintaining undesirable behaviours or that could be used to help develop alternative (or adaptive) behaviours. A functional behaviour assessment (FBA) is an effective means to determine the underlying function or purpose of behaviours (see “Managing Challenging Behaviours” in Chapter 3 of this guide).

**Step 4:** Continue measuring the target behaviours to determine if the intervention is effective, and if additional skills or behaviours need to be targeted.

**Step 5:** Undertake an ongoing evaluation of effectiveness, and make necessary adjustments to maintain or increase the effectiveness of interventions.
arrive, hearing a bell ring, or noticing that students are lining up at the door.

Prompts can be:
• direct (“Put your books on the shelf in the locker”) or indirect (“Where do books need to go?”);
• verbal, physical, or visual (gestures or pictures);
• brief (to get the student started on a task) or intensive (step-by-step through the task).

Some students have difficulty recognizing, understanding, or responding to some prompts. It is important to determine the type and intensity of prompting that the individual student requires. Students can become dependent on prompts from others, so it is important to plan for the fading of prompts when appropriate. Visual supports can provide a method of prompting that many students can learn to use independently. Here, the goal is to help the student become as independent as possible in participating and completing tasks.

**Modelling:** A form of prompting is modelling. It provides a visual example of what is expected in a task by having students see the task being performed. It can also help the student see the sequence of steps in the task. For example, the student learns the actions to a song by first watching a demonstration by an adult.

**Reinforcement:** The target behaviour is encouraged through the use of reinforcement. Reinforcement is provided after the target behaviour to increase the likelihood that the behaviour will reoccur. Reinforcers can be:
• tangible (such as stickers);
• activity-based (the student is able to participate in preferred activity);
• social (praise or thumbs up sign).

Reinforcement can be provided for displaying positive behaviours – to encourage these behaviours to continue – or for refraining from or reducing the occurrence of negative behaviours. It can be something provided (such as praise) or something removed (such as a non-preferred activity being removed when the student asks appropriately).
Reinforcements must be motivating to the individual student. What motivates one student may not motivate another. Similarly, what is motivating to an individual student may change over time. It is important that monitoring be used to ensure that the reinforcer remains effective. In some cases, developing a “menu” of reinforcers may be helpful so that students may select from several options.

To encourage students to be as independent as possible, it is important to gradually change reinforcers from others to more natural reinforcers, such as the satisfaction of completing a task.

**Task analysis:** Task analysis involves breaking tasks down into smaller, teachable steps. Here, the goals for each step are established, and task performance can then be taught according to these steps. Each subtask is taught and reinforced in sequence. In many cases, students may have difficulty only with one step within the larger task, rather than with the task overall. It is important to write subtasks in terms of what the student will do, and to record interventions or prompting that are required for students to complete the subtasks.

**Forward chaining:** When steps within a task are identified through task analysis, use forward chaining to focus instruction to teach the first step or subtask that the student has not mastered, and then assist the student with the rest of the task. Once the student masters the first subtask, then focus instruction on the next step that the student has not mastered, continuing until the student can complete all of the subtasks. For example, in learning to print his or her name, focus the student on learning to print the first letter, and print the rest of letters for the student.

**Backward chaining:** In backward chaining, it is the last step or subtask that a student has not mastered that is focused on first. This provides the student with immediate reinforcement through successful completion of the task. Once this skill is mastered, the focus moves to the next-to-last subtask. For example, a student learning to remove outdoor clothing might initially focus on learning to hang his or her coat on a coat hook after being assisted.
with other steps. Next, the student would learn to take off his or her coat, and then hang it on the hook.

**Discrete Trial Training (DTT):** Like task analysis, DTT involves analysing skills and breaking large tasks into steps or subtasks (or discrete skills). Here, subtasks are usually taught sequentially, and each subtask is mastered before learning the next skill. DTT consists of four steps:

1. The student is given a brief instruction or question (stimulus) that is designed to produce a specific response. If necessary, the instruction is followed by a prompt.
2. The student responds.
3. If the response is as expected, the student receives reinforcement such as praise.
   If the response is not as expected, the response is ignored or corrected or the student is prompted to provide the expected response.
4. Data are recorded.

Subsequent trials or instructions are then given.

**Shaping:** Shaping involves the use of reinforcements to change behaviour gradually and systematically. Here, approximations of the desired behaviour are reinforced until the target behaviour is achieved. For example, these steps could be followed if the target behaviour is for the student to sit with a group during storytime:

- Step 1: reinforcement for standing near the group
- Step 2: reinforcement for standing closer to the group
- Step 3: reinforcement for standing in the group
- Step 4: reinforcement for sitting in the group
ABA can be used to understand and change behaviour and teach new skills in a variety of ways.

<table>
<thead>
<tr>
<th>Purpose of ABA</th>
<th>Example of Desired Behaviour or Skill</th>
<th>Sample Method to Change Behaviour or Skill</th>
</tr>
</thead>
<tbody>
<tr>
<td>Increase positive behaviours</td>
<td>To increase on-task behaviours</td>
<td>The student is allowed to select a preferred activity as reinforcement after working on a target activity. Data are collected to measure on-task behaviours and record reinforcements.</td>
</tr>
<tr>
<td>Teach new skills</td>
<td>To teach the student a motor skill such as throwing a ball</td>
<td>Step-by step-instruction based on a systematic task analysis is provided, using modelling and forward chaining. Praise is provided as reinforcement. Progression of skill development is measured and used to determine whether additional subtasks need to be targeted.</td>
</tr>
<tr>
<td>Maintain behaviours</td>
<td>To maintain the student’s focus on the task</td>
<td>A student who becomes distracted from tasks and is upset when other students finish tasks is systematically taught and prompted to use relaxation techniques, such as deep breathing, as a method to maintain focus on the task.</td>
</tr>
<tr>
<td>Generalize or transfer behaviour</td>
<td>To generalize use of a skill that is used in a specific setting to other locations</td>
<td>Shaping and reinforcements are used to gradually and systematically encourage self-calming techniques that are effective in the resource room to be used on the playground. Data are collected to monitor use and effectiveness of self-calming techniques in other locations.</td>
</tr>
<tr>
<td>Restrict or narrow conditions under which behaviour occurs</td>
<td>To reduce use of inappropriate language</td>
<td>Through the use of Discrete Trial Training and reinforcement, the student learns to replace shouting of inappropriate words with more appropriate language. Data are collected to determine the use of replacement language and to track prompts required.</td>
</tr>
</tbody>
</table>
The methods of ABA that are used within educational programs should be varied according to the strengths and needs of individual students, and the types of behaviours and skills that need to be taught. Some students may require intensive use of some of the above strategies within their program, while others may require the use of ABA as an instructional approach only for very limited, specific purposes. Each student’s pattern of strengths and needs must be analysed to determine the specific learning objectives and teaching methods that are required and most appropriate.

Effective use of ABA methods requires collaboration among parents, educators, and other involved professionals to determine appropriate goals and strategies for achieving them. Collaborative efforts provide opportunities for the generalization of new skills and behaviours across a variety of settings and situations.
Integrating a variety of approaches leads to the development of programs that promote the best outcomes for students. Educational programs for students with ASD are developed through a process of information gathering and consultations to determine the individual learning profile for each student. For many students with ASD, the most appropriate educational program includes a combination of academic goals based on the Ontario curriculum with accommodations or modifications, as required, as well as alternative program goals to support the development of behaviour, communication, social, and functional living skills that are useful and meaningful for the student. The learning profiles for students with ASD are diverse and one specific method or program will not be appropriate for all students with ASD.

A growing body of research indicates that the following essential instructional components are important when instructing students with special needs (including those with ASD):

- Instruction must be of **sufficient duration and intensity** to produce adequate learning and application to new situations
- Students with special needs benefit from **cumulative review** of important concepts and skills
- Students with special needs require **guided practice** to help them bridge the gap between what they know and don’t know, and they need to receive explicit instruction in how to apply learned information in new situations
- Teachers need to monitor their **instructional language** (both oral and written)
- Instruction needs to **integrate both foundation skills and higher-order processes** concurrently for students to be able to apply their knowledge and skills
- Students benefit from clear, organized teaching that **makes explicit connections** across previous and current content areas (Education for All, Ontario Ministry of Education, 2005a).
Literacy Skills

Reading
Many students with ASD have strong visual skills and are often more successful in learning to read through a whole word sight recognition approach than through a more traditional phonics program. Whole words that are meaningful are usually easier for students to learn to read than words for which students have no basis of experience or knowledge. In the beginning stages of learning to read, it is critical to enable students to develop a sense of confidence.

While knowing the alphabet and knowing the sound symbol associations are usually regarded as prerequisite skills for learning to read, many students with ASD often have difficulty acquiring these prerequisite skills (Mirenda, 2003). Some students are able to recite alphabet letters and letter sounds by rote, but may be unable to apply this to decoding words in a fluent manner. The rate of reading fluency will affect a student’s ability to comprehend the message of the words. If a student needs to give more cognitive attention to a difficult decoding process, then it is likely that the student’s understanding of what the words are saying will decrease.

Some students may be better able to understand and learn the phonetic components of words after they have learned to read them through a whole word sight recognition approach, working backwards within a top-down framework from the whole to the parts. It is important to consider that, although some students may be unable to manipulate the symbolic representations of sounds, they may still be able to recognize and comprehend words and acquire skills in phonics.

As the student acquires more words, it is essential to provide activities in which these words are used in meaningful contexts. Ongoing practice in sentence construction enables the student to understand how words are organized to express thoughts and needs, as well as how pronouns, articles, and prepositions are used in context. Daily practice in sentence construction provides students with the opportunity to develop an understanding of
It is important to consider that while some students may not read aloud, they may be able to read and comprehend complex words and passages.

It is necessary to provide the student with a variety of opportunities to demonstrate reading ability. For example:

- Students who do not respond when asked to read a passage aloud may be able to select and match pictures related to the words or sentences.
- Manual signs can be paired with printed words and used to indicate word recognition for students who are non-verbal or emergently verbal.

It is essential that students learn to recognize and read words across the curriculum. Reading cannot be confined to reading period, as it is a critical component of every subject area. Subject-specific vocabulary should be taught as one of the components of participation in the curriculum. Key vocabulary for a theme or unit should be determined and then reviewed and reinforced to help students generalize their recognition of the words. Key words can be recorded in a personal dictionary, scrapbook, or theme book, for example, “My Science Words”, and, when possible, paired with pictures so that the visual concept is associated with the printed word.
The following strategies help to build literacy skills:

- As students acquire and consolidate sight word recognition skills, add new words to their vocabulary, gradually working from the names of people, objects, and places of interest to vocabulary associated with the curriculum and the environment.
- Use activities, games, and software to develop and reinforce letter knowledge, phonemic awareness, and grapheme-phoneme relations.
- Provide students with software (e.g., word prediction, word processor) to support writing efforts.
- Provide content and stories of interest that will further develop sight vocabulary.
- Allow for repeated reading of familiar text as this can facilitate fluency and comprehension.
- Include activities to highlight connections between words (e.g., rhyming games, word families, word sorting).
- Provide explicit instruction on decoding “rules” for spelling patterns. Encourage the use of rote memory skills for correct spelling, as well as attempts to use understanding of sound/symbol associations. Provide regular opportunities for practice.
- Use literacy skills to develop and enhance other skills, such as communication and social skills (e.g., talking word processor “reads” to classmates a story written by student).

Reading comprehension difficulties are common for students with ASD. Although some students develop an extensive reading vocabulary through whole word sight recognition or through a strong ability to phonetically decode previously unseen words, they may not be able to comprehend what they are able to read. Students’ motivation to read and comprehension levels are likely to be increased when the vocabulary and storylines are familiar and meaningful. Initially, when students first engage in reading, stories created about family life, pets, favourite television characters, and similar topics will be far more relevant than stories about things, people, and places that are unfamiliar.

Many students with ASD have difficulty with the perception and understanding of sequences. This may lead to a significant challenge in the development of comprehension skills, as understanding causality and making inferences and predictions will be difficult. This difficulty can apply to sequencing skills in both daily life and in reading fiction and non-fiction. Activities such as using picture cards that can be sequenced to create a story or using if/then matching cards help students to develop skills in
perceiving, understanding, and creating sequences. Picture cards that are relevant to the student’s experiences, such as pictures of the student or familiar peers engaged in activities of interest to the student, will be most effective. Illustrations from materials read can be used to help the student sequence events and information.

**Writing**

While some students with ASD are proficient in printing and handwriting, many others have difficulty with written tasks because of difficulties with fine motor skills. The visual-motor coordination and fine motor movements that are required in written activities may be extremely frustrating and divert the student’s attention from the content of what he is writing to the physical process of print production. Difficulties with handwriting have been identified as one of the most significant barriers to academic participation for students with ASD in schools today (Simpson, 2007).

There are many ways in which technology can be used to enhance and compensate for the limitations that students have in their writing skills. If fine motor skills are a barrier to participation and academic function, then seek the alternative of assistive technology.

The use of keyboards, word processors, and writing software has facilitated the writing process for many students with ASD. Learning to use a keyboard is a valuable skill for students to acquire. For many students with ASD, using a computer is a highly preferred activity. Teach and encourage the student to learn to use the keyboard as a writing instrument. This is a reasonable accommodation to the motor planning difficulties often associated with ASD. While learning to print can be a useful exercise for many, when students’ difficulties with penmanship inhibit their ability to demonstrate their knowledge and spark behavioural upsets, the use of the keyboard is a viable alternative.

In many cases, OTs are involved with students with ASD and provide assessments and information on a student’s fine motor and writing skills. OTs can provide recommendations about the strategies, resources, and accommodations that will be appropriate
to assist students with fine motor and writing difficulties. As with other skills, it is essential to focus on the students’ strengths and determine the skills and methods that will be most functional for the students in the future.

### Mathematics

For many students with ASD, participation in mathematics can be a challenging aspect of the academic curriculum. There are several reasons for this:

- Although many mathematical concepts can be demonstrated through visual examples, they are often accompanied by sophisticated verbal instruction.
- The language of mathematics instruction has its own vocabulary, and the precision of instruction and usage of terms can vary from one instructor to another.
- Mathematical terminology can be very complex and is challenging for students who struggle with processing the language of everyday interactions.

Along with the use of an alternative writing instrument, strategies that have been found to support writing activities for students with ASD include:

- Fill-in-the-blanks and cloze exercises
- Multiple-choice answers to questions (e.g., students point to the correct answer)
- Scribing
- Exemplars (e.g., samples of work that demonstrate the expectations of the task)
- Reduction in the length or number of written responses
- Division of written tasks into manageable components that focus on one section at a time
- Visuals or graphic organizers to support the written task (e.g., pictures of the sequence of a story)
- Word bank of key vocabulary or frequently used words
- Rubric for task completion that specifies the essential components of a task in a clearly outlined format

When tasks are clarified and accommodated or modified as necessary, many students with ASD are more able to participate.
• Along with the verbal, orthographic, and representational expressions of number, there is also the symbolic representation in the form of numerals.
• Mathematical operations are usually performed with a pencil. Many students with ASD have fine motor difficulties and learning to form numerals and manipulate them on paper may be challenging.

Students with ASD will probably be more able to comprehend and participate in activities that involve mathematics if they have developed an understanding and ability to:
• match according to various criteria (e.g., shape, type of object, colour);
• sort or separate objects by predetermined criteria (e.g., colour, shape), working towards independently determining criteria;
• pattern through ongoing use of concrete materials, sounds, lines, and so on to copy, extend, and create increasingly complex patterns.

**These are some important strategies for building comprehension and enabling participation in mathematics:**

- Isolate and illustrate a simple, clear visual example of each mathematical concept. Collect these in a binder so that the student can review them regularly.
- Create a personal dictionary of mathematical terms for the student. It is important for students to know how to read and speak the language of mathematical processes.
- If necessary, break up the instructional period into several discrete segments. Some students with ASD may not be able to sustain their attention on one concept for the length of an instructional period. Breaking up the instructional period also facilitates ongoing review and reinforcement of other aspects or strands of mathematics.
- Use a variety of manipulative materials as an ongoing component of instruction to enable students to generalize concepts across materials.
- If a student has ongoing difficulty with printing numerals, provide an alternative. Using number stamps or performing operations on the computer can enable a student to participate more effectively.
- As many students enjoy using the computer, whenever possible or appropriate access mathematical software that provides visuals that clearly explain and demonstrate concepts.
- Provide opportunities for allowing the student to respond using a multiple-choice format. Pointing to the correct answer may allow increased accuracy of response.
As students enter the higher grades, many have significant difficulty with showing and explaining the steps of their work. Many students with ASD are able to solve equations very quickly and write down the answer without showing all the intermediary steps of how they reached it. This may reflect the inherent fine motor difficulty experienced by the student, as well as the student's lack of internal language to solve the problem.

Some students may have difficulty verbally explaining how an answer was reached. This reflects the language processing aspect of ASD. When this happens, it will be important to determine what the expectations for the student will be and how the student's difficulties will be accommodated. It may be necessary to apply a different or modified rubric for assessment.

While some students with ASD are able to participate in some of the strands in mathematics at grade level, many will require significant accommodations or modifications to their programs. Decisions will have to be made regarding the essential components of their ongoing program and participation in mathematics.

As a student comes to each new grade, it is essential to perform an inventory of the student’s skills and carefully review the previous year’s IEP. Information from the plan, as well as a skill inventory, can form the basis of the student’s program. However, it must be noted that if a particular skill area has been worked on for years with little success, the student may not be ready or able to grasp those concepts. It may be more important to focus on other areas that might have more relevance to the student’s experience and functional abilities. For example, it may be more functional and possible for the student to learn to use a calculator rather than to recite multiplication facts.

**Homework**

Many students with ASD have challenges completing homework assignments, particularly as they enter the higher grades where expectations are more sophisticated and complex. There are several reasons for this:

- Many students cannot generalize between environments.
  - What the students are able to do at school in a particular set
of circumstances, they may not be able to do in the home environment.

• Even with written reminders about task expectations, students may forget or be confused about what they are to do.
• Parents’ language of instruction may be different from that of the teacher. This can cause extreme difficulty both for the parents and the student.
• It may take a student much longer to complete tasks at home because of distractions in the environment and a desire to be doing other things.
• By the end of the school day, many students are exhausted from the energy that they have had to expend to maintain their attention, regulate their behaviour, and participate in tasks. They may not have sufficient energy or attention to be able to continue task engagement through the evening.

While it can be helpful for students to have some homework, this is an issue that must be carefully discussed by the teacher and the family. An important goal is for students to be able to generalize skills between home and school. However, the quality of family life is very important and homework should not be the overriding feature of a family’s evening.

These are some strategies for positive homework experiences:

- Reduce the number of questions to be answered.
- Change the writing expectation (e.g., shorter answers, computer-generated responses).
- Watch a story video.
- Watch a task sequence presented through video-modelling/demonstration.
- Listen to a story.
- Draw a picture (if appropriate).
- Play games such as cards (to reinforce mathematics and social skills).
- Provide students with opportunities for homework assistance at school.

Working together, parents and teachers can find the best approach to the nature and amount of homework to be done. Balance is key.
Developing communication, social skills, and appropriate behaviours is an important part of the teaching and learning process. Every student is different and has unique needs.

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Managing Challenging Behaviour

Impairments in communication and social skills are among the primary characteristics of ASD. These skills, in turn, are intertwined with behaviour. Severe problem behaviours that some students display – such as tantrums, aggression, destructiveness, and self-injurious behaviours – may be related to the difficulties they have with communication, adapting to change, understanding social situations, and their level of functioning. The communication, social, emotional, and behavioural difficulties experienced by students with ASD can vary. In order to learn effectively and engage successfully in the life of the classroom, some students may need behavioural supports due to medical, emotional, physical, or cognitive challenges, as well perceptual or sensory differences.

Everything a student does is behaviour. Some behaviour is effective. It meets the student’s need, is understood and considered appropriate by others, and reflects the student’s interaction with the environment. Other behaviours may be ineffective but occur because they are a student’s best available strategy for interacting with the environment and having his or her needs met.

Many of the challenging behaviours exhibited by students with ASD are methods used by the child to:
- gain something (e.g., desired object, attention);
- make a change in the environment (e.g., increase stimulation level, change to a more preferred activity);
- escape the environment (e.g., leave situation that is stressful).

Effectively managing behaviours requires that we consider not just the behaviour itself – what the student is doing – but also the underlying purpose of the behaviour. If we focus only on what the student is doing, and try to eliminate the behaviour, we may find that another behaviour arises in its place, because the underlying need has not been met. It is important to remember that inappropriate behaviours are usually in response to something in the
student’s environment and are an attempt to communicate a need, rather than deliberate acts of aggression or purposefully negative behaviour.

Managing the behaviours of some students with ASD can be a challenging and stressful issue faced by school staff and parents. Behaviours such as destruction of property, physical aggression, self-injury, and tantrums are affected by, and can affect, the development of appropriate social and educational skills. Students exhibiting these behaviours are often at risk for exclusion and isolation (National Research Council, 2001).

Variable factors, such as those described below, may influence decisions about developing effective management strategies.

1. **Definitions of problem behaviour are variable**
   What can be identified as a behaviour problem may change depending on the variables. For example, the student, teacher, and environment all play a significant part in whether the behaviour is acceptable. Adults often approach the subject of behaviour from the perspective of their own life experiences and current circumstances. These perspectives affect the acceptance, tolerance, internal rules, and overall framework for expectations of the student. As a result, everyone involved is likely to see the situation in a different way, on the basis of factors such as the following:
   - personal childhood experiences
   - cultural background
   - school policies
   - the individual’s relationship with the student

2. **Behaviour is student and situation dependent**
   It is often challenging to determine how the unique needs of the student should be considered in relation to expectations about the student’s behaviour. For example, the expectations and response regarding a student who is unaware of the inappropriateness of a specific behaviour would be different from those regarding a student who is aware. Likewise, factors such as the age of the student and behaviours of the student in other situations or settings come to bear on our decisions about what is considered acceptable behaviour.
Successful Practices for Behaviour Management

Managing Challenging Behaviours Is a Process
Managing challenging behaviours of students with ASD requires a collaborative team problem-solving process that includes parents and others who interact with the student. It is critical that the team consider the student’s behaviour across various situations, and how to manage behaviours that arise in different settings and circumstances during the day. It is also important to establish consistency across the collaborative team, in regard to both expectations and planned responses.

One example of an effective behavioural support strategy is to help a student learn to use an alternative way to communicate feelings that have led to behaviour problems in the past. Teaching the student to use specific words, gestures, or visual supports (such as pictures) to identify and communicate feelings provides an alternative that may reduce or replace the disruptive behaviour. Behavioural support strategies help to prevent problems from occurring and enable students to acquire more effective, appropriate ways for interacting with the environment.

The principles and strategies of ABA, as discussed previously in this guide, provide an effective approach to managing the challenging behaviours of students with ASD. The focus is on measuring and tracking behaviours over time to determine the function of the target behaviour (for the student), and altering the behaviour (either increasing or decreasing its occurrence) by providing intervention.
Behaviour support plans need to be developed to manage some challenging behaviours. An effective support plan will:

- be based on a functional assessment and analysis of the student’s behaviour;
- focus on the individual student;
- include methods for teaching alternatives to the behaviour problems;
- include strategies for making changes to the environmental and instructional circumstances found to be most associated with the problem.

Effective behaviour management is an ongoing process with definable steps. It begins with a functional behaviour assessment (FBA), which is a systematic process designed to look beyond the student’s behaviour and focus on identifying its function or purpose. Based on the FBA, a behavioural support plan is developed to identify alternative behaviours for the student, and strategies for reducing or replacing ineffective behaviours. Finally, ongoing monitoring is used to review progress and identify any changes that need to be made.

**Completing an FBA**

**Step 1: Define targeted behaviours**

Information needs to be collected to clearly identify and describe the problematic and challenging behaviours. Collecting data about a student’s behaviours helps to determine how frequently a targeted behaviour occurs and any changes that may take place over time. A variety of data-gathering methods should be considered, to ensure that a broad picture of the behaviour has been developed and that behaviours have been accurately observed, measured, and recorded.

Background information about the student can be gathered through interviews with the student, parents, teachers, or others who interact with the student, and provides valuable information about the student’s patterns of behaviour both in the classroom and in other situations and circumstances. Background information can also include current and previous student information found in the student’s OSR, such as the student’s academic history and assessment results.
Data can be collected indirectly, through interviews or reviewing past records, and directly, through observation. Collecting data about a particular behaviour will provide important information, including the following:

• where it happens (and does not happen)
• when it happens (and does not happen)
• who is usually present when behaviour happens (or does not happen)
• how often it happens and how long it lasts
• what else is happening in the environment
• the student’s reaction to the consequences of behaviour

Observation is an effective tool for gathering information about behaviour. Ideally the student should be observed across a broad range of situations and settings, including both structured and unstructured settings. Observations can be recorded anecdotally, or using a structured data-collection method such as graphs or scatter plots. Data-collection charts, such as the following example, can be designed to track specific behaviours and situations and to identify possible factors such as time of day or activities that might influence the student’s behaviour.

<table>
<thead>
<tr>
<th></th>
<th>Period 1</th>
<th>Period 2</th>
<th>Lunchtime</th>
<th>Period 3</th>
<th>Period 4</th>
</tr>
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<tbody>
<tr>
<td>Behaviour A</td>
<td>✅✅✅✅✅</td>
<td>✅✅</td>
<td>✅</td>
<td>✅✅✅</td>
<td>✅✅✅</td>
</tr>
<tr>
<td>Behaviour B</td>
<td>✅✅✅</td>
<td>✅✅✅</td>
<td>✅</td>
<td>✅</td>
<td>✅✅✅</td>
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</table>

It can be useful to develop scales for tracking the intensity of a behaviour. Scales can be used to compare the perceptions of others about the behaviour, and to track changes over time. A typical scale might consist of:

• 1 = Mild disruption to others sitting nearby
• 3 = Moderate disruption to others within classroom
• 5 = Severe disruption to other classes
It is important to identify environmental factors that influence or increase the probability that the challenging behaviour will occur. A data-collection method such as ABC (Antecedent – Behaviour – Consequence) helps to determine patterns of behaviour and to identify factors that might be used to predict behaviours of concern.

ABC is a simple but effective method used to collect information about a student’s behaviours. ABC tracking assists in thinking about what is happening and looking at the behaviour in the context of the whole event, not just the specific action. Through the ABC method a chart similar to the one below is used to record:

- **Antecedent**: what happens before the behaviour problem occurs
- **Behaviour**: what the student does
- **Consequence**: what happens after or as a result of the behaviour.

<table>
<thead>
<tr>
<th>Antecedent</th>
<th>Behaviour</th>
<th>Consequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>(11:00) John was sitting with peers on carpet in library looking at book. The teacher directed the class to put away books and take out math activities.</td>
<td>John looked at the teacher and then threw the book at peer.</td>
<td>John was directed to leave the classroom and escorted to a chair outside the principal’s office.</td>
</tr>
<tr>
<td>(11:15) John entered the classroom while students were working on math activities.</td>
<td>John took box of math activities from table and threw on the floor.</td>
<td>John was directed to leave the classroom and escorted back to the principal’s office.</td>
</tr>
</tbody>
</table>

The ABC method can be used to track and compare information about the patterns and relationships that may have developed between a student’s behaviours and other factors, such as various activities, time periods, and settings. It can be a helpful tool to identify the factors that have an effect on the behaviour, such as environmental factors and those internal to the student. For example, behaviours that occur when a student is hungry or in a crowded setting can be documented to identify whether these factors have an effect on the student’s behaviour. The information in the above sample ABC chart helps to identify the possibilities.
that John’s behaviours may be related to a desire to avoid the math activities and that an unintended reinforcement may be provided by a trip to the principal’s office.

**Step 2: Analyse data to develop a hypothesis about the function of the behaviour**

Once data have been collected, the next step is to analyse all of the information to determine what may be causing the student to maintain the challenging behaviour, and the purpose or “function” of the behaviour. For the previous example of John, it will be necessary to consider the background information that has been gathered from various sources about John and his behaviours, as well as further observations that have been recorded about his current behaviours across various time periods and activities.

Questions such as the following should be considered in analysing information about a student’s behaviours:

- What is the behaviour of concern? Is it a new or unusual behaviour for the student?
- How frequently does this behaviour occur?
- Is there a pattern to when it occurs (e.g., time of day, activity, setting, audience)?
- What happens just before the behaviour?
- What happens following the behaviour? Is there a consistent response from others or a consequence to the behaviour?
- What is the student’s reaction to the response or consequence to the behaviour? Does the behaviour change (e.g., frequency or intensity)?
- What are possibilities for the function of the behaviour for the student (e.g., gain or escape something)?

It is useful to look systematically at and analyse all of the information that has been collected to develop a hypothesis statement about the function of the student’s behaviour. The hypothesis needs to be articulated as a clear statement that contains the following elements:

> When [antecedent happens] the student will [inappropriate action] for the purpose of [what is gained or escaped]. This is more likely to happen if [other triggers …].
Step 3: Do a functional analysis to test the hypothesis

A functional analysis is a systematic process through which antecedents and consequences are altered to develop or confirm the hypothesis about the function of the behaviour. For example, in the above case of John, we could begin a systematic process to try the following to test the hypothesis about John's behaviours:

- Provide John with other types of activities during this period.
- Introduce math activities at an earlier time in the morning or just after lunch.
- Schedule a break or walk in the hall for John prior to beginning math activities.
- Vary the types and difficulty levels of the math activities.
- Expect John to stay in the classroom and work on the task, if he throws something in response to math activities.

Through varying the antecedents and consequences, it may be found that the original hypothesis about the student's behaviour needs to be changed. For example, if John continues to throw items when other activities are presented during this period, the hypothesis statement could eventually be refined to this:

When John is presented with activities that involve group work, he will throw items for the purpose of escaping from the task. This is more likely to happen if it is near lunchtime.

Step 4: Develop a behaviour support plan

Once a hypothesis about the purpose of a behaviour is developed, a behaviour support plan can be designed to address the challenging behaviour of the student, on the basis of the earlier observation and analysis. The behaviour support plan should be individualized to the student and clearly set out what will be done to reduce the inappropriate behaviour.

The behaviour support plan is designed to:

- target the underlying reason for the behaviour;
- replace the inappropriate behaviour with an appropriate behaviour that serves the same function;
- reduce or eliminate challenging behaviour.
To develop a behaviour support plan:

- Consider how the antecedents (or environment) could be changed. For example, if the hypothesis is that the student’s behaviour is due to sensory stimulation, such as excessive noise, the strategy might be to reduce the noise level.
- Identify alternative behaviours that the student can use to achieve the same purpose. For example, in the case above, John could be shown how to use a phrase or visually communicate the message that he did not want to work in the group situation, rather than throw items.
- Consider strategies and supports that may be needed to help students to learn and use alternative behaviours.

- Focus on positive reinforcement methods to identify the consequences or reinforcements that will be used.
- Use the student’s strengths and interests to motivate the student.
- To help students learn to generalize appropriate skills, plan to promote the use of alternative behaviours across different settings and as independently as possible.
- Identify clearly the tasks involved and those responsible. For example, outline who will teach the student replacement behaviours, who will provide the reinforcement, and when and where the actions will take place.

It is important to remember that behaviour is established and develops over time, and that managing and changing behaviour is a process that takes time.

Step 5: Monitor progress and identify alternative strategies

It is necessary to continue monitoring the effectiveness of the interventions and behaviour support plan, and to establish a process for ongoing review and data collection to determine whether effective changes are occurring.

During this process, decisions may be made to:
- continue the current plan;
- change the plan and use alternative strategies;
- increase or decrease the degree of student support;
- target another behaviour;
- change reinforcements.
Communication Challenges Associated with ASD

The communication skills of students with ASD vary significantly. Communication challenges are central to ASD, however, and many students with ASD have difficulty communicating with others in a meaningful way or using functional communication skills.

Some students develop highly sophisticated vocabulary, although they may have difficulty using language in a way that is considered socially appropriate. Others are non-verbal and need to use an alternative form of communication, such as visuals or gestures, to share information with others. Some students do not have a method of communication that is easily recognized by others. It is important to understand the communication system that individual students use.

At least one-third of all individuals with ASD fail to develop spoken language (Bryson, 1996). Other students develop a limited vocabulary or acquire spoken language but have difficulty using language in a functional way. When speech does develop, unusual grammatical structures, pitch, tone, and inflection are common. Many students with ASD have difficulty understanding higher level, figurative language such as idioms, figures of speech, and abstract concepts. In these cases, a phrase such as “It’s raining cats and dogs” is likely to be interpreted literally and misunderstood.

Non-verbal communication skills include the use of gestures, visuals, facial expressions, and body language in communications with others. These skills are often difficult for students with ASD to recognize, understand, and use.

Social communication skills are typically an area of difficulty for students with ASD. Social communication skills involve the
Many students with ASD have difficulties using and understanding both verbal and non-verbal communication methods. Their communications with others may be further affected by impairments in social communication skills.

Sometimes, the communication methods used by students with ASD are unusual or not commonly used by others. As a result, their intended messages may not be understood. For example, some students frequently use made-up phrases or words that are meaningful to the student but unknown to the listener. Other students may use eye gaze or proximity to communicate a message that is not recognized or is overlooked by others.

Communication skills can significantly affect and be affected by sensitivities or impairments in other skill areas. For example, making eye contact with others during conversations and using eye gaze appropriately are common difficulties for individuals with ASD. Often, a difficulty with making eye contact is connected to a sensitivity to visual stimuli that is overwhelming to the individual.

The development and use of communication skills are closely connected to students’ behaviour and social skills. Some students use unusual or socially inappropriate behaviours to communicate. Often, the message that the student is trying to communicate is not recognized as a communication attempt, or is misunderstood.

It is important to determine the underlying cause for a student’s communication difficulties. For example, it is possible that a student who is not attentive or does not respond to communication attempts by others:

- Has difficulty processing verbal information
- Does not understand the communication method being used

- Has heard and understood the information but is unable to respond to it.

A comprehensive assessment by a speech-language pathologist (SLP) will help to determine whether the difficulty this student has in responding to information from others is due to a receptive language, processing, attention, or other difficulty.
Strategies to Develop and Enhance Communication Skills

Effective communication programs for students with ASD need to support the development of functional communication skills to enhance or increase interactions with others. A communication program should use a variety of methods that are based on the student’s individual strengths and needs and the communication goals that are determined to be appropriate for the student. Decisions about the communication system that is considered most effective for a student to use are determined by an assessment of the student’s current communication abilities.

The student’s expressive, receptive, and social communication skills are usually assessed by an SLP. It is essential that the program to develop communication skills is at the level of the student’s cognitive and linguistic development and includes methods, words, or concepts that are meaningful and functional to the child.

For students who use spoken language, the goals of a communication program could be to enhance the development of language and communication skills and to increase the use of verbal behaviours. Communication goals for students who do not use spoken language could include learning to vocalize, gesture, sign manually, or use alternative methods, such as pictures or objects, to enhance communication attempts.

Students with ASD often require direct instruction, as well as opportunities for social interactions in which to learn, develop, and practise communication skills. It is often necessary to teach the student the verbal language and other communication methods that are required across a variety of communicative situations, such as the following:

• greetings (“Hello”, wave hand)
• requests (“Please help”, manual sign)
• refusals (“No, thank you”, shake head)
• comments (“I live on Main Street”, point to visual address).

Speech, language, and communication skills that are taught in the student’s natural environment are more likely to generalize to
The following strategies have been found to be effective to increase communication attempts for verbal and non-verbal students with ASD in the classroom.

<table>
<thead>
<tr>
<th>Communication Strategies</th>
<th>Examples</th>
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<tbody>
<tr>
<td><strong>Reinforce</strong> that communication is a method of interacting with others by responding to students’ communication attempts. It is important to be aware of and respond to a student’s early attempts to communicate, such as gestures and signals involving eye gaze and proximity. Allowing a student to have access to objects or activities in which an interest has been expressed will reinforce and increase communication attempts.</td>
<td>Hand a student who is learning to use gestures a favourite book after the student points to the bookshelf.</td>
</tr>
<tr>
<td><strong>Structure the learning environment</strong> so that the student needs to communicate to access objects of interest and preferred activities. Incorporating preferred items into the student’s classroom will help to establish an environment in which the student is motivated to communicate in the actual setting in which similar, future communications are likely to occur.</td>
<td>Place a favourite item on a shelf outside of the student’s reach to provide an opportunity for the student to learn to ask for assistance.</td>
</tr>
<tr>
<td><strong>Model</strong> more effective methods of communication to increase and expand the student’s communication efforts.</td>
<td>Model how to use the phrase “This is hard” to the student who throws a book on the floor when a task is difficult.</td>
</tr>
<tr>
<td><strong>Provide verbal, physical, or visual prompts</strong> as signals to encourage or enhance communications. Prompts can help students who don’t know what to say during routine or novel situations.</td>
<td>Provide a card with a written cue for an appropriate response (e.g., “It is snowing”) during routine weather activity.</td>
</tr>
<tr>
<td><strong>Pause frequently</strong> during activities the student prefers. The student’s motivation to participate in or continue with a motivating activity will provide an incentive for the student to communicate.</td>
<td>Pause in the middle of reading a familiar part of the student’s favourite story.</td>
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</tbody>
</table>
Recognizing Behaviours as Methods of Communication

Behaviours are part of the communication system and are often used to indicate information about a student’s internal state or as a response to the environment (Heflin & Alaimo, 2007). The behaviours that a student with ASD uses to communicate information will be affected by impairments that the student may have in communication, behaviour, and social skill development. For example, a student may destroy materials that are difficult to understand or may hit out at others when in an uncomfortable situation or feeling tired. Teaching communication skills that are socially appropriate can help to reduce disruptive behaviours and increase social interactions.

Helping students to develop appropriate functional communication methods has been found to reduce problem behaviours while increasing communication skills (Durand & Merges, 2001; Buckley & Newchok, 2004).

Functional communication skill development begins with an assessment and analysis of the student’s behaviours to determine the intended message of the behaviour. The student is then taught replacement communication methods that are more acceptable to communicate the same message. Depending on the situation and student, the replacement functional communication methods can be verbal or non-verbal. Verbal methods involve teaching a specific phrase (e.g., “This is hard,” “I need to leave”); non-verbal methods include teaching the use of pictures, gestures, or a speech-generating device. For example, the student who hits out when in an uncomfortable situation can be taught the phrase “I need to leave” or provided with a picture that will visually demonstrate to others that the student is upset and needs to leave the situation.

An important component of developing functional communication methods to replace behaviours is that the student must consistently meet with success when learning the replacement communication. Otherwise, the student may revert to the original behaviours that had previously achieved the desired results. For example, if a student is learning to use the phrase “I need to leave” to replace hitting out at others, it is important that he is consistently provided with an opportunity to leave the situation in response to the phrase.
Augmentative and Alternative Communication Methods

Augmentative and Alternative Communication (AAC) makes use of services and devices, such as visual symbols, signs, or voice output devices, to supplement (augment) or replace (serve as an alternative to) a student’s current method of communication. Although AAC methods have been found to be most useful for students who do not develop functional speech or those who have difficulty processing spoken language, they are also used successfully to help verbal students to communicate or understand complex or abstract information more effectively.

There is a variety of AAC systems. They can be simply made, inexpensive, low-tech devices such as pictures and word cards. Others can also be more complex, expensive, high-tech systems such as computerized voice output devices with synthesized and digitized speech. In many cases, AAC systems are portable and can be used in different settings. They are reasonably easy for others to understand and use.

Visual systems use communication boards, objects, picture cards, or visual symbols to support or expand spontaneous, functional communication attempts for some students with ASD. In most cases, the visuals are organized thematically in a system that is easy for the student to access across various settings.

The use of visuals to support communication is most effective when:

- Visuals reflect the student’s particular interests or needs
- Students take an active role in using and handling visual materials
- Students establish a connection between the activity or object and the visual
- Visual systems are readily available (e.g., kept in a consistent location) to the students and others in the environment
- Visuals are durable and quickly replaceable
- Visual systems are used consistently.
Students who have not developed speech may be able to use a visual system to communicate information. Other students who have developed some verbal language may benefit from using a visual system to provide more specific information or to reinforce their messages.

Technology-based tools can be used to support programs to develop communication skills such as oral comprehension, oral expression, conversation skills, and learning to listen. Software programs are available that can be used to develop visual aids, provide voice output to text and word prediction, match visuals to oral, and provide opportunities for structured learning and practice of skills.

As the communication challenges of students with ASD can vary widely, it is important that the family and an SLP are involved with school staff in the determination of the most effective AAC system that is suited to the needs and abilities of the student.

Although AAC systems are widely used to support the oral and written communications of students with ASD, there has been limited research on the types of technology and the implementation methods that are most effective.

**Gestures and Manual Signs**

Gestures and manual signs provide a visual means of communication for students who are verbal or non-verbal. They have been found to be effective low-tech AAC methods for some students with ASD. Each of these methods needs to be considered in the context of the student’s functional communication system. Some limitations to the use of gestures and manual signs have been attributed to difficulties a student may have with motor and imitation skills and the fact that all gestures and manual signs are not universally recognized.

The decision regarding the use of gestures and manual signs with a student should be based on assessment by an SLP and an OT of the student’s ability to use these methods. Also, the abilities of others in the student’s environment to understand and use the gestures and signs should be considered.
## Activities to Enhance Interactions and Promote the Use of Language

<table>
<thead>
<tr>
<th><strong>Provide language scripts</strong> of appropriate phrases for the student to use during routine and social situations.</th>
<th>The use of print or pictures that are appropriate to the context of predictable situations can provide students with “ready-to-use” language that can be rehearsed and reviewed, and can also expand the length and number of utterances during involvement in activities.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Encourage the student to act out a familiar story using figures and objects.</strong></td>
<td>Visual supports, props, scripts, and actions can be used to engage students in an activity that is interactive and helps them to understand the story.</td>
</tr>
<tr>
<td><strong>Have the student orally read with others.</strong></td>
<td>Stories and poems with predictable storylines or repetitive language patterns can be used for the students to take turns reading selected parts. The consistent language patterns can reinforce communication routines (e.g., your turn, my turn).</td>
</tr>
<tr>
<td><strong>Provide opportunities to use and rehearse language</strong> across activities and subject areas.</td>
<td>Repeated exposure to the same theme across a variety of resources and related activities (e.g., reading stories, singing songs, finding pictures) can help students to generalize vocabulary and skills.</td>
</tr>
<tr>
<td><strong>Model and rehearse appropriate language through play.</strong></td>
<td>Resources such as toys, puppets, and pictures can be used to represent activities and events in which appropriate actions and dialogue are modeled and acted out.</td>
</tr>
<tr>
<td><strong>Provide students with opportunities to watch communications between themselves and others.</strong></td>
<td>Viewing videotapes of self and peer models can increase conversational skills of children with ASD.</td>
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</table>
**Echolalia**

Echolalia is the repetition of the words or phrases used by others. It can be immediate (occur right after the original utterances) or delayed (occur significantly later than them). Echolalia is common in students with ASD and has been found to serve a variety of purposes. In some situations and for some students, echolalia is used as a method to communicate or interact with others or in response to something in the student’s environment. In other cases, echolalia has no apparent communicative or interactive function and appears to be a form of practice for the student to learn language or regulate self-behaviour. The use of echolalia increases when some students have difficulty comprehending language. Regardless of the type or purpose of echolalia, it should be considered as part of the child’s system of communication, rather than an isolated behaviour (Rydell & Prizant, 1995).

It is important not to assume that the student understands or is intentionally using the content of the echolalic speech being used. For example, a student may repeat a phrase in response to a situation that is causing anxiety. The phrase that is used by the student to indicate anxiety may not be related to specific details in the current situation, but is a phrase that was used in a previous stressful situation. In this case, teaching the student to recognize anxious feelings, practise calming techniques, and use an alternative phrase such as “I’m upset” to indicate anxiety may be an appropriate intervention.

An assessment and analysis of the student’s echolalic behaviours and patterns within the context of the student’s environment should be done to understand the role and purpose of the echolalia and to determine the interventions that will be effective for the student. Individualized goals and strategies should be developed according to an analysis of the student’s use of echolalia. The goal of strategies could be to expand, reduce, or replace the echoic utterances.
Enhancing Communications with Students

The possibility of successful communications can be increased by being aware of and using strategies such as the following to enhance and support communications with students:

- Communicate at the student’s level.
- Establish the student’s attention.
- Prepare the student for what is going to be communicated.
- Support messages visually with gestures, body language, and pictures.
- Speak slowly and clearly.
- Don’t overload the student with information.
- Pause to allow the student time to comprehend and respond.
- Guide or prompt the student to respond if needed.
- Stay with the interaction or repeat until the desired response is achieved.

(Hodgdon, 1999)
The Development of Social Skills for Students with ASD

When considering the development of social interaction skills for students with ASD, it is important to keep in mind that impairment in the area of social skills is associated with a diagnosis of the disorder. Individuals with ASD generally do not learn social skills through incidental experiences and exposure to social situations. Most often, it is necessary to work on skill development by directly teaching the language and rituals of social interaction. Students with ASD also need to be provided opportunities to use their social skills and generalize them to the larger school environment, home, and community.

Building a Foundation for Skill Development

When a student with ASD enters school, it is important for the teacher, support personnel, and parents to discuss and develop a comprehensive profile of the social skills already used by the student in other environments, such as the preschool, daycare, home, and community settings. It is necessary to observe the student in the school setting to see how or whether these skills are generalizing to the new school environment. When an accurate picture has been formed, a plan for social skill development can be devised.

It is important for both teachers and parents to keep in mind that the development of social interaction skills will take time, patience, and consistency. There is a continuum of development from fundamental skills, such as learning to share toys, to the complex issues of adolescence and young adulthood. Skill development may come quickly at some points and slowly at others, depending on the student’s ability to receive information and the intensity of focus in other skill areas.
How Peers Can Help

An important component in building a solid foundation for skill development is the creation of a climate in the classroom and school in which individual differences are understood, accepted, and accommodated. Peers will play a significant role in helping a student learn how to interact successfully.

While many natural social interactions between the student with ASD and his classmates will occur in the daily round of school activities, sometimes a more formalized arrangement is required to promote interactions. Peers can take on the roles of being supportive buddies during recess and lunch, in the library and gym, at the computer, and during cooperative work periods for specific subjects.

Peer Awareness

Most students are curious about the nature of a classmate’s difference. When this happens, it may be helpful to create a level of awareness about ASD. Demystification of disability opens the
door to communication and understanding of individual strengths and abilities. With understanding comes acceptance. This, however, raises some important considerations:

• Caution must always be used to protect the right to privacy of the student and the family. Any disclosure of information must be done in a manner consistent with school board policies and applicable privacy legislation.

• If the student’s parents want information about their child’s diagnosis or characteristics to be shared with classmates and other people in the school, it is important to discuss how it should be shared. Some parents will choose to come into the class and explain the nature of the diagnosis and how it is manifested in their child, while others will prefer that the teacher share this information and perhaps distribute an appropriate piece of children’s literature on disability and difference. (See the list of children’s books on ASD in Appendix B: Resources).

• It is necessary to consider whether the student with ASD is aware of the diagnosis and the student’s level of comfort with this information being shared with classmates. In some cases, students with ASD have been the ones to share the information (giving them control of the process).

• Parents and teachers need to decide whether the student with ASD should be present during the sharing session. Sometimes, classmates are more comfortable asking their questions if the student is not present. In other situations, the student with ASD may be able to answer classmates’ questions and participate in the experience.

• In all cases, whether specific information about a student can be shared or not, it is important that a comfort level for all students be established. Opportunities for students to recognize and appreciate aspects of human difference, such as individual strengths and abilities, should be an ongoing part of instruction. There is also a growing body of children’s literature dealing with disability and difference, which can serve to open discussion and facilitate learning. In a multicultural, inclusive society, it is crucial that students be prepared to understand and accept human difference in all of its forms.
The Issue of Eye Contact
The establishment and maintenance of eye contact is often regarded as one of the fundamental components of social interaction. However, many individuals with ASD report that they can either look at others or listen to others, but not do both. Making eye contact is a factor that frequently compounds their difficulties with social interaction.

In some cases, it is appropriate to work towards building eye contact during social interaction, if only for short periods. As eye contact during social interaction is valued in our society, encouragement and training for play and social interaction may be the most appropriate starting point. Work slowly and carefully. Generally, as a student gets to know you and becomes accustomed to the sound of your voice, he or she will be more likely to look at you comfortably.

A reasoned and moderate approach to this issue will help to alleviate anxiety for a student who, with time, may become more able to establish eye contact. It is critical to keep in mind that this will be to the student’s comfort level, not to ours.

Some individuals with ASD will continue to have difficulties with making eye contact. Their communications with others are easier when they focus on another physical detail of the speaker or in the environment. It is important to consider that emphasizing or focusing on the skill of making eye contact may reduce or limit the student’s abilities to communicate.

Theory of Mind
Simply described, “Theory of Mind” is the ability to attribute thoughts and feelings to others. Individuals with ASD generally have difficulty imagining how other people may be feeling in a situation or forming hypotheses about what others may be thinking. Because of this, understanding the nuances of social interaction may be very difficult.

Students with ASD are often unable to discern unwritten social rules and may find themselves in social difficulty because of their inability to perceive the subtleties of interaction. Very often,
direct teaching and ongoing mentoring are necessary to help the student develop an awareness of expectations and to generalize appropriate responses and behaviours across the school environment.

Although it is difficult for many students with ASD to develop a comprehensive understanding of what other people may be thinking or feeling, such students can be provided with the tools needed to manage their social behaviours and establish relationships with others to the best of their ability.

**The Fundamentals of Social Skill Instruction**

To facilitate positive interactions at school, the following social skills are particularly important for students to learn:

- greetings
- initiating and closing interactions
- choosing activities
- sharing
- waiting
- turn taking
- playing games

**Greetings**

When teaching students with ASD how to greet others, observe how other students in the class and at that age level greet each other. While shaking hands with someone is good manners, it is rarely appropriate for peer interactions. Student with ASD may initially need to be prompted through the greeting, as well as reinforced for all efforts. Peers should also be reinforced for being partners in teaching this important skill.

Very often, school staff will greet the student as he or she travels in the halls of the school. As days are busy, they may be in a hurry or not realize that the student with ASD (as well as students with other developmental disabilities) may not be able to respond as quickly to a greeting as others can. People in the school need to know that if they greet the student, they must be prepared
to wait the 10 or 20 seconds it may take the student with ASD to respond.

**Initiating and Closing Interactions**

Social scripts (see “Social Scripts” in the “Strategies to Facilitate Social Understanding” section below) can be a very useful strategy to help students know the expectations of how to enter a play situation or how to ask someone to play. It is important to keep in mind that this is a skill that can be difficult for many other students as well, who might also benefit from direct instruction in this area. While instructing and coaching the student with ASD on how to initiate an interaction or enter a play situation, it is also important to coach peers on how to receive the student, that is, how to be welcoming.

Similarly, students with ASD need to know how to leave a play situation politely. Through direct teaching, which might include demonstration, rehearsal, and prompting, the student is instructed through “leaving” scenarios. Peers are also coached to demonstrate a wave or to say “See you later” or another phrase denoting closure.

**Choosing Activities**

As previously discussed in this guide, transitions between activities are often difficult for students with ASD, and choosing a new activity can lead to increased anxiety and unusual or inappropriate behaviours. The following strategies have been found to be useful in helping students make a choice about activities:

- Clearly note “Activity Time” on the students’ visual schedules.
- Provide a visual choice board using either photographs or picture symbols to inform the students of the available activities.
- Allow students to have autonomy over the choice process.

In the early grades, it can be difficult for students with ASD to understand that only two or three children are allowed to be in specific centres at a time. Sometimes flexibility is key, and providing positive transition experiences might be more effective than following the rules rigidly.

- Sometimes, students have one preferred activity at which they would choose to spend all of their time. When this happens, it
is helpful to provide transition warnings, such as using a timer, to let the students know that it is time to move to another activity. Once the preferred activity has been selected, it is removed from the choice board and is no longer available as a choice. This is simple, visual, and obvious and can encourage students to broaden their interests.

- When engaging with peers, it will be important for the student with ASD to work towards being able to participate in another classmate’s activity choice. This should be done with a supportive and preferred peer. Initially, this may be possible only for a short period of time, and the length of time be extended naturally or in small increments.

**Sharing**

The concept of sharing is fairly abstract and, similar to Theory of Mind, involves an understanding that others have a need or desire for something and will share with us. Students with ASD often have difficulty understanding either what sharing means or why it is necessary. Sharing is a skill that may need to be taught directly.

- Initially, the concept of sharing may be best taught in a quiet, non-distracting environment. The instructor would have control of the materials (e.g., building blocks), which are visible to the student.
- The word “share” is emphasized with simple language as the student is handed a block (e.g., “I share the blocks.”).
- This continues, with the sharing statement being repeated each time, until the student has several blocks.
- The student is then given an instruction to share. At this point, the student may need to be prompted to give a block to the instructor. This prompt may be gestural: the instructor holds out a hand and says, “Share.” If the student is able to do so, praise lavishly.
- If the student is not able to follow through, then continue to repeat instructional sessions. The materials for sharing can vary across sessions.
- Important throughout is the student’s awareness that he is not going to lose the item by sharing it. He, too, will be able to participate in using it.
• When the concept has been learned, add a supportive peer to the situation and work on extension of the skill to include sharing with the peer.
• When the student has learned to share in a structured process, activities can be created in the classroom for the student to practice sharing in other situations, such as sharing art supplies.
• While this process may appear to be lengthy and involved, careful training for sharing can help students learn this important skill.

Waiting
Being able to wait, either to take one’s turn, to eat lunch, or to go home, is a critical life skill. This is a skill that may have to be developed incrementally, using specific tools and strategies, which can include the following:
• a “First …, then …” board
• a visual schedule
• a timing device
• distracters, such as tokens that can be removed one at a time to denote a “countdown”
• a high rate of reinforcement for waiting
• reliable follow-through: the student has waited, so he receives the item

Turn Taking
Like sharing, turn taking is another skill that initially may be best taught directly in a quiet, non-distracting environment. The student needs to know what the term means and what it involves. When teaching turn taking:
• use a simple or familiar toy or game. The act of taking turns can be demonstrated for the student while he is prompted (if necessary) through the turn-taking process. Key terms, such as “My turn” and “Your turn”, must be associated with the movements involved;
• reinforce the student’s participation in the process of waiting for a turn;
• occasionally pause before saying “Your turn” so that the student will develop an awareness of having to wait for the verbal cue.
Playing Games

By teaching students with ASD the specific skills that they will need for various activities and games, we enable students to enter into activities with a foundation of information and skills that they can apply to situations, and to be as independent as possible.

While many games appear to be simple, actually they are composed of fairly complicated sets of subskills. Teaching the student to play a game may be most successful when done in a quiet, non-distracting environment. These are some suggestions for teaching students with ASD to participate in games:

• In a step-by-step manner, introduce the game materials and demonstrate how to use them. Use as little language as possible. When dice are involved, it is worth the effort to help a student learn to automatically recognize the numbers represented by the dots. Otherwise the endless counting of dots will slow down the process of play when the student is with his peers.

• Demonstrate the expectations of the game (e.g., throwing a ball towards a target, moving a game piece, matching cards).

• Perform a task analysis to determine each step of the game. Incrementally demonstrate and practise the steps, adding each new step as the student experiences success.

• Practise the game regularly until the student understands the routines.

• When the student is comfortable playing with an adult, introduce a supportive peer to the game and rehearse until the student with ASD is again comfortable.

• If possible, videotape a small group of students playing the game so that the student can watch the routines and rituals of play over and over again so that he can develop an understanding of group expectations.

• Introduce the student to the group situation and step back. Let the student play as independently as possible.

By taking the time to develop the ability to play a game without constant peer or adult reminders and support, a life skill is developed. When a student is able to play independently without adult supervision and coaching, he is more likely to be included with peers. By taking this time, we are not only teaching the student
with ASD valuable game-playing skills, but also facilitating positive social interaction.

The acquisition of these fundamental social interaction and play skills will facilitate social relationships with peers. As well, such skills will serve as a foundation on which to build skills as the student moves on to other environments.

**Strategies to Facilitate Social Understanding**

**Social Scripts**

For the child with ASD, the use of social scripts can play an integral role in the development of social skills. Scripts can be written to target the various situations in which a student regularly participates in order to teach what an individual should say and do in particular situations. They are used to clarify and provide a model of the language and processes of social interaction. Social scripts break down social situations into steps and clearly outline expectations, such as the rules or guidelines for social behaviour and good manners.

**Tips for Composing Scripts**

- Write a social script much like the script of a play, the words guiding the action and interaction. For example, a social script might be written on what to say when asking a peer to play a game.
- Rehearse over and over again until the student is confident about the conversational or action routine. It can then be embellished through natural, but directed, occurrence.
- Read the script with the student in various settings and at different times of day. Students need to be able to go through the conversational routine of the script without prompting; therefore, they may need to repeat particular conversations.
- Introduce the routine of the script without using the printed copy.
- Gradually add new components to the script, if possible without adding them to the printed copy. Make the new components as small as necessary. As the script is “played out” in different environments, add elements that are particular to the specific environment.
- Work for mastery of one script at a time.
- When the student is ready and a situation warrants, prepare a new script. If possible, use some of the words from previous scripts (controlled vocabulary).
- Create a “script book” in which the conversations are collected. Review them regularly.
Stories That Teach Social Understanding

Stories that are designed to teach or clarify social understanding differ from social scripts in that they explain why people act in certain ways rather than focus on the “how to” aspects of social situations. The idea is to inform the reader simply, clearly, and in a reassuring manner how and why he or she should respond in a certain way. Negative behaviours are not stated in this kind of a story, and alternative, positive behaviours are suggested. Such a story might explain how students can manage their time and behaviour at recess, and the ideal time to read this story would be before the bell signalling the beginning of recess rings.

Recognizing Emotions and Facial Expressions

Questions such as the following could be used with pictures (e.g., photographs of the student, parents, siblings; picture symbols; magazine pictures) to illustrate a range of emotions:

- What does happy (sad, angry, frightened, bored, etc.) look like?
- What makes me happy? (photo of child and preferred items)
- What makes Mommy happy?
- What makes Daddy happy?
- What makes my teacher happy?

A book can be created for each of the emotions (e.g., “What Is Happy?” book). Keep in mind that this recognition and understanding will not develop quickly for many students. These books may need to travel with the student from year to year. It will be important to update and add to them as classmates and staff change.

The Use of Media in Developing Social Awareness

Popular television shows and movies can be used to teach and reinforce understanding of social situations and facial expressions. When playing a recorded program or movie, use the pause button on the remote control to stop the video at key points, and then ask questions such as:

- Is the character a boy or a girl?
- What is the character’s name?
- What is he wearing?
• What expression is on his face?
• How does the character feel? Is he sad?
• Why is he sad?

A “feelings chart” containing, for example, picture symbols or photos, can be provided so that students can match and note the facial expressions of the characters.

It may be necessary to watch the video several times before students can answer the questions accurately.

**Issues in Adolescence**

Many fundamental social skills can be developed while students are in the primary and junior grades; however, as students enter the intermediate and secondary years, with puberty the social dynamics among peers begin to change, and peer relationships become more complex. Trying to understand interpersonal social dynamics at the intermediate and secondary levels can be a significant challenge for students with ASD. It is important to note that students with ASD may not share many of the social concerns of their classmates, such as issues of boy/girl relationships, status, fashion, and cliques.

There are, however, some areas of particular concern, such as hygiene and sexuality, for all students at this stage of development. This is a time when positive communication between home and school can serve the student well, as discussing any issues of concern is important. Issues such as body odour or inappropriate sexual behaviour must be tackled forthrightly, leaving no room for question. Students need to learn about their changing bodies, how to approach members of the opposite sex, and rules about appropriate sexual behaviour. This learning can be supported and reinforced at school and home. Methods for discussing these personal issues in ways that are dignified for the student, the family, and the school staff must be established.
**Privacy**

Students with ASD may need to have specific knowledge about what is private and what is public. Privacy includes knowing how to use a large, public washroom appropriately, as well as knowing what parts of their bodies are private and who may touch their body (i.e., their doctor). Definite rules need to be established and adherence to them coached and reinforced.

Privacy also concerns students' personal information – their name, address, and so on. Students need to know the persons with whom it is safe to share that information. A significantly important example of this is the use or misuse of the Internet.

**Safety**

Many of the issues mentioned above can affect a student’s safety, both in the school and in the community. Students with disabilities can be vulnerable and may easily be victimized or bullied. It is essential that the student be given clear and definite rules about how to respond in difficult situations, for example, how to call for help. Because students with ASD have difficulty generalizing, it is important that parents and school personnel share and teach the same rules.

As students approach the last years in the school system, ongoing attention to social issues and social skill development is critically important for some students with ASD. Social skills will guide the individual’s ability to form relationships, have a social life, and understand what he or she needs to do in order to be safe. These goals are usually foremost in the minds of parents as they see their child move toward adulthood. Working together in positive ways, we can give students as many tools as possible to help them manage at home, at school, and in the larger community environment.
A diagnosis of Asperger’s Disorder is associated with the characteristics described below.

### Challenges Associated with Asperger’s Disorder

Asperger’s Disorder, commonly known as Asperger’s syndrome or Asperger’s, is one of the disorders found within the range of ASDs. Some unique features related to a diagnosis of this disorder are outlined in *DSM-IV-TR* (APA, 2000), and specific strategies should be considered for students in whom this disorder has been diagnosed.

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<td><strong>Social Skills</strong></td>
<td></td>
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<tr>
<td>• Severe and sustained impairment in social interaction</td>
<td>• Has difficulty interacting with peers and adults; typically demonstrates one-sided and eccentric social behaviours</td>
</tr>
<tr>
<td></td>
<td>• Has difficulty reading and understanding social situations</td>
</tr>
<tr>
<td><strong>Communication Skills</strong></td>
<td></td>
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<tr>
<td>• No significant general delay in language acquisition, but difficulties with more subtle aspects of social communication</td>
<td>• Learns words and phrases at the typical age, but displays difficulties with conversational skills (e.g., misunderstanding and misusing non-verbal communications, monopolizing conversations)</td>
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<tr>
<td><strong>Behaviour</strong></td>
<td></td>
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<tr>
<td>• Restricted, repetitive, and stereotypical patterns of behaviour, interests, and activities</td>
<td>• Displays obsessions or preoccupations with specific themes or interests, often to the exclusion of other activities</td>
</tr>
<tr>
<td>• No significant delay, if any, in cognitive development or in the development of age-appropriate self-help skills, adaptive behaviour, and curiosity about the environment in childhood</td>
<td>• Adheres inflexibly to rules or non-functional routines</td>
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<tr>
<td></td>
<td>• Has repetitive motor mannerisms, such as hand or finger flapping</td>
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</table>
The most significant differences between students with Asperger’s Disorder and those in whom another ASD is diagnosed are that these students generally are considered higher functioning in many areas and do not have clinically significant delays in the development of early language or cognitive skills. Early language skills, such as using single words and spontaneous communication phrases, are usually within normal limits and in some cases may be seen as advanced or precocious during the preschool years. Many students with Asperger’s Disorder have average intellectual abilities, and they may perform as well as or better than typical students in some academic areas, especially those that involve rote memory skills such as the recall of factual information.

Although students with Asperger’s Disorder typically have been found to have average or above-average cognitive skills, they often display subtle but important differences in cognitive processing abilities. These students usually have the cognitive abilities to learn information but may have difficulties in:

- comprehending complex or abstract information;
- learning and using the information in the context of the social environment of schools;
- problem solving;
- generalizing knowledge and skills.

However, students in whom Asperger’s Disorder is diagnosed have a severe social deficit, which makes understanding and using age-appropriate social behaviours and social communication skills difficult. They often have difficulty learning social skills incidentally by watching and interacting with others, and often misunderstand social situations. These difficulties affect the development of friendships and relationships with peers and adults.
Students with Asperger’s Disorder usually speak fluently and are able to use routine language for social interactions. However, difficulties are common with social communication skills such as the following:

• communicating with others (e.g., talking at rather than with others)
• using social rules of conversation (e.g., turn taking and listening to others)
• initiating and maintaining extended conversations
• changing topics in conversations
• using and understanding non-verbal communication skills (e.g., facial expressions)
• comprehending the social context or multiple meanings of language
• using common speech patterns (e.g., inflection or pitch)

Some students with Asperger’s Disorder have a preoccupation and heightened interest in a specific topic of interest in which they become very knowledgeable. They are intensely motivated to gather and share a great deal of detailed information on this topic. However, the social communication difficulties of the student usually affect the student’s ability to recognize or respond to the interest level of the audience with whom the information is being shared.

Usually, students in whom Asperger’s Disorder is diagnosed do not have clinically significant delays in the development of age-appropriate self-help skills. However, the effects of unusual behaviours and impairments in social interaction can cause significant impairments in social, occupational, or other important areas of functioning. Motor coordination difficulties that may affect fine motor and gross motor skills, as well as organizational skills, are areas of concern for some students.

Similar to students with other disorders, students in whom Asperger’s Disorder is diagnosed are a diverse group, and impairments can vary according to the individual and situations or tasks. Some students with Asperger’s Disorder have the cognitive skills to successfully complete postsecondary programs and enter
the workforce as relatively independent adults. The self-sufficiency skills of others may be significantly affected by impairments in adapting to social situations. Younger students may have little or no interest in establishing friendships. Adolescents, however, may have an interest in establishing friendships but experience social isolation because of difficulties with age-appropriate reciprocal social skills.

The difficulties that students with Asperger’s Disorder have in academic or social situations often increase or become more obvious during adolescence. As students at this stage are expected to learn, analyse, and use more abstract and complex information, the difficulties of students with Asperger’s Disorder have an increased effect on their participation in learning activities. They often become aware of their social or academic difficulties or differences, and as a result become self-conscious or anxious in social and academic situations. Some students develop a sense of social isolation in adolescence, with increased anxieties, depression, or withdrawn behaviours.

It is not unusual for the behaviours of students with Asperger’s Disorder to be misinterpreted by adults and peers. For example, a student may be able to read advanced books on a topic of interest but unable to read another book at the same reading level on a topic of limited interest to the student. This may be seen as a behaviour that demonstrates deliberate task avoidance or refusal.

Because of the strengths and “normally” developing skills that students with Asperger’s Disorder may have, the impairments and difficulties in social and behavioural functioning can be overlooked or misunderstood. These students often want to establish friendships or relate to others but may not have developed the appropriate skills, and their interactions or responses are perceived as being unusual. For example, in an attempt to be accurate or honest or to converse with others, a student may make an observational comment that is considered offensive or inappropriate to others. Students with Asperger’s Disorder may be unaware of the impact on others of what they are saying or doing, and are at an increased risk of becoming victims of teasing and bullying by peers.
In many cases, a diagnosis of Asperger’s Disorder is not made until the student is in school and impairment in the development of age-appropriate social behaviours becomes more evident. Some students with Asperger’s Disorder may be in school for several years before what have been seen as unusual or odd behaviours are recognized as characteristics of a disorder.

**Strategies to Develop and Enhance Student Skills**

Many of the strategies that have been found effective for teaching students with ASD may also be effective for students with Asperger’s Disorder. The following strategies specifically address some of the common characteristics and difficulties of students with Asperger’s Disorder. It is important that the learning profile and strengths and needs of the individual student be considered in determining the strategies that will be most effective for the student.

**Social Interactions**

- Provide explicit or direct teaching of social rules and skills.
- Break social situations into a sequence of steps.
- Model or script steps within social interactions.
- Provide a variety of opportunities for the student to understand, recognize, and practise social rules and skills. Examples include:
  - Establishing structured and unstructured opportunities for the student to socialize with peers (e.g., lunch program, small group outings) through a circle of friends, peer partners, or buddies
  - Planning cooperative group activities
  - Providing opportunities for the student to interact with others in a shared interest (e.g., a hobby).
- Identify for the student what is happening and why.
- Encourage the student to monitor and provide feedback about social actions of self and others.
- Use video- or audiotapes of social interactions to identify, analyse, predict, or teach specific verbal social skills (e.g., “What is he doing?” “What did he say?”) and non-verbal social skills.
- Provide opportunities to generalize social skills by rehearsing across a variety of settings with various individuals, including highly structured to less structured to real-life situations (in school, home, and community).
### Social Communications
- Provide explicit teaching to help the student recognize, understand the meaning of, and use non-verbal communications (e.g., gestures, facial expressions).
- Practise using social communication skills with peers and adults.
- Provide cues and prompts (e.g., visual cues for initiating conversations, your turn/my turn cards).
- Use clear, specific language.
- Explain language that is confusing for the student, and provide examples and opportunities to learn and use language (e.g., metaphors, words with multiple meanings).
- Teach the student how to monitor his or her own understanding and request that information be repeated or clarified.
- Check with the student to determine understanding; be aware of messages that the student may find unclear or misinterpret.
- Provide opportunities for role playing and rehearsal of conversations in predicted social situations (e.g., turn taking in conversations).

### Limited Range of Interests
- Provide the student with a scheduled time to engage in preferred activities.
- Provide the student with varied and meaningful opportunities to use knowledge of an area.
- Incorporate other activities gradually and prepare the student for a change in activities.
- Encourage participation in new activities by connecting new activities to an area of interest.

### Motor Coordination
- Use technology to enhance written output.
- Provide structured instruction for motor tasks (e.g., how to tie shoelaces).
- Provide additional opportunities for the student to practise motor tasks.
- Provide alternatives or accommodations when possible (e.g., use fill-in-the-blank activities, provide additional time).

### Anxiety
- Provide the student with a method to recognize, rate, and monitor anxiety (e.g., thermometer; rating scale; colour-coded sequence to indicate green = okay, red = not okay).
- Teach self-calming or relaxation techniques (e.g., listening to music, taking deep breaths).
- Provide scheduled opportunities as needed to make the environment less stressful (e.g., student “downtime” doing a pre-selected, calming activity).
### Anxiety (continued)

- Be aware of and prepare the student for anxiety-causing situations (e.g., provide advance warning, teach coping strategies).
- Monitor and respond to signs of teasing or bullying from others.
- Provide the student with strategies to recognize and respond to teasing or bullying.
- Provide reassurance and positive feedback to reinforce the student’s efforts and accomplishments.

### Organizational Skills

- Provide training or assistance with specific, individualized strategies to help the student be organized (e.g., use input from the student to set up a coded binder system to help keep track of and organize notes).
- Build an organizational system into routines (e.g., weekly tidying of locker or desk).
- Use visual supports to organize information and materials (e.g., visual schedule, homework checklist, graphic organizer, colour- or picture-coded binder sections).
Ontario educators use a wide range of strategies, tools, and resources to provide effective educational programs for students with ASD. Some of the materials that have been developed by school boards and regional autism service providers are reproduced, with permission, in this chapter, and may be used by schools and school boards across the province.

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1. Online Autism Modules

The Avon Maitland District School Board provides a unique, professional learning opportunity for teachers, educational assistants, and administrators interested in acquiring more knowledge and a deeper understanding of students with Autism Spectrum Disorders.

Basic, vital information regarding the teaching and support for these children is available in a seven-module, user-friendly format.

The online modules, entitled “Autism Spectrum Disorders: Putting the Pieces Together,” include Definitions, Communication, Social Skills, Behaviour, Sensory Issues, Transitions and Putting It All Together.

Also offered are:
- Quick links to related websites
- A list of the “Top 10” ASD resource books
- Examples of visual communication ideas such as schedules and task strips

Access the modules at http://amdsb.mycourses.ca.
2. Information Pamphlet for Administrators

School-Based Team Meeting
A school-based team meeting is an effective method of bringing the needed players together. The parents can invite who they believe would be needed for information sharing (current personnel who work with their child). The principal invites appropriate system specialists and, if needed, their Community Care Access Centre contact.

The purpose of a school-based team meeting is to:
- Consider the plan for school transition and school start.
- Gather information.
- Address safety aspects.
- Address questions by school staff.
- Access community resources.
- Instil confidence in the family.
- Establish a monitoring process.

Community Resources

**Lambton**
STARRting Points, 336-0120
St. Clair Child and Youth Centre, 337-3701
Pathways Health Centre for Children, 542-3471
Community Care Access Centre, 337-1000
Local Association for Community Living

**Kent**
Prism Centre for Audiology & Children’s Rehabilitation, 354-0520
Chatham-Kent Children’s Services, 351-8454
Community Care Access Centre, 436-2222
Rain and Shine Behavioural Counselling Ltd., 255-1691
South West Regional Autism Program for Pre-schoolers, 358-1451
Local Association for Community Living

Transitional Supports for Students with Autism Spectrum Disorder

“Coming together is a beginning.
Keeping together is progress.
Working together is success.”
Henry Ford

Lambton Kent District School Board
Autism Transition Committee

Lambton Kent District School Board
200 Wellington Street
Sarnia, Ontario, N7T 7L2
Phone: (519) 336-1500 Fax: (519) 336-0992

(continued)
What Is Autism?

Autism is a developmental disability that typically appears during the first three years of life.

The result of a neurological disorder that affects functioning of the brain, Autism Spectrum Disorder and its associated behaviours interferes with the normal development of the brain in the areas of reasoning, social interaction, and communication skills.

Children and adults with autism typically have deficiencies in verbal and non-verbal communications, social interactions, and leisure or play activities. The disorder makes it hard for them to communicate with others and relate to the outside world. They have a very difficult time accepting any sort of change in their daily routine, which may cause outbursts.

Inclusion

The board supports a philosophy of inclusion and a range of services and practices for special needs students. Regardless of placement option, students with special needs are an integral part of their school community and are supported by a team approach.

Practical Suggestions for Administrators

When a parent/guardian calls:

- Be welcoming.
- Explain the board’s process for admitting special needs students.
- Ask if there has been an actual diagnosis and what, if any, medications are being taken.
- Research the student’s educational history, including IEP.
- Determine what community services are being used.
- Discuss any behavioural concerns, the degree of intervention required and the support currently in place.
- Establish transportation requirements.
- Contact or visit the student’s current educational setting.
- Discuss services and programs available in our system.
- For students who require significant support, arrange a school-based team meeting.
- Arrange a school visit with the parent, student, and support staff in the spring to familiarize the student with the new school environment.

Be prepared when a parent/guardian calls:

- Find out what other services are available (occupational therapy, behaviour support, physiotherapy, community support).
- Be familiar with board specialists who can provide assistance that will benefit both students and school staff.
- Find out about transportation for special needs students.
3. Survey for Parents

Dear Parents:

Thank you very much for your cooperation and participation in Triple A. We hope that you have found the process helpful for your child’s entry to school. In order for us to plan for next year, we would appreciate if you would complete the following:

1. Your hopes for this year are: __________________________________________________________

2. How do you feel about those hopes now? ______________________________________________

3. Your worst fear for this year was: ______________________________________________________

4. How do you feel about those fears now? ________________________________________________

Do you have any other comments about your child’s and his or her school’s participation in Triple A? _____________________________________________________________

5. I feel Triple A has helped my child to have a smoother entry to school this year. 1 2 3 4 5
I believe Triple A is an effective program. 1 2 3 4 5
Triple A is difficult for school teams to implement. 1 2 3 4 5
My child’s school team have learned new strategies through Triple A. 1 2 3 4 5

Halton Catholic District School Board
4. Student’s Day at School

Today is ____________________________
I am circling the things I did at school today in green.
The activity I liked best is circled in red.

My morning was:
Great    Okay                           Not great

My afternoon was:
Great    Okay                           Not great
## 5. School Communication

### School Communication

To be completed daily by the classroom teacher and sent home

<table>
<thead>
<tr>
<th>Activities</th>
<th>Yes</th>
<th>No</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

Homework that needs to be completed:

___________________________________________

___________________________________________

Additional comments:

___________________________________________

___________________________________________

McMaster Children's Hospital, Hamilton/Niagara Region
How Do I Teach a Student with Autism?

- Be positive.
- Get to know the child. Spending time initially will save you time in the long run.
- Be aware of individual differences, e.g., activity level, sensory needs, communication, and cognitive ability.
- Find strengths and needs of the student, e.g., make a list of likes and dislikes.
- Talk to parents/guardian, previous teachers, consultants.
- Read the O.S.R.
- Be specific with instruction.
- Limit your language.
- Be consistent, incorporating flexibility.
- Use direct language.
- Do not take responses personally.

Who Can Help You?

- Parent/guardian
- Principal
- MART/SERT
- Family of school consultant
- School support team
- PDD/ASD team
- SEAC (Special Education Advisory Committee)

Resources

- Websites
  - Autism Society Ontario [www.autismsociety.on.ca](http://www.autismsociety.on.ca)
  - Autism Intervention and Strategies for Success [www.cesa7.k12.wv.us/sped](http://www.cesa7.k12.wv.us/sped)
  - Bridges [www.bridges.canada.com](http://www.bridges.canada.com) – technology, training materials
  - Do to Learn [http://dotolearn.com](http://dotolearn.com) – free games, activities, and instruction on how to build a story strip
  - Geneva Centre [www.autism.net](http://www.autism.net) – TDSB employees are members of the Geneva Centre
  - Internet Resources on Autism [www.autism.org](http://www.autism.org)
  - Mayer-Johnson LLC [http://mayer-johnson.com](http://mayer-johnson.com)
  - Parent Books [www.parentbooks.ca](http://www.parentbooks.ca)
  - Queens University [www.autismresearch.ca](http://www.autismresearch.ca) – current research
  - Carol Gray’s Website [www.thegraycentre.org](http://www.thegraycentre.org)
  - Tin Snips – activities and resources for teachers [http://members.cox.net/tmsnips/welcome.html](http://members.cox.net/tmsnips/welcome.html)
  - Tippet Library (TDSB) [http://media.tdsb.on.ca](http://media.tdsb.on.ca)

- Videotapes
  - Meet My Brother – Autism Society of Ontario
  - Straight Talk about Autism – Geneva Centre
  - Look Beyond the Labels – MTSB and Tippet Library

- Books
  - Roberts Publishing

Supporting Students With

Autism Spectrum Disorder

<table>
<thead>
<tr>
<th>Autism</th>
<th>PDD/NOS</th>
<th>Asperger Syndrome</th>
</tr>
</thead>
</table>

[ASD symbol]

[Communication]

[Social Interaction]

[Support]

[Books]

[Tools and Techniques]

(continued)
AUTISM SPECTRUM DISORDER (ASD) is a lifelong neurological condition that causes impairment in these three areas known as the triad of impairment. Students with autism present a myriad of strengths and abilities.

<table>
<thead>
<tr>
<th>Communication Challenges</th>
<th>Behaviour Issues</th>
<th>Social Interactions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Receptive Language</strong></td>
<td><strong>Restricted Repetitive Interests/Activities</strong></td>
<td>• Knowing how to initiate an interaction</td>
</tr>
<tr>
<td>• Comprehension</td>
<td>• Preoccupation with specific interests, e.g., train schedules</td>
<td>• Maintaining an interaction</td>
</tr>
<tr>
<td>• Interpretation of verbal/non-verbal information</td>
<td>• Excessive need for sameness, e.g., adherence to routines</td>
<td>• Recognizing the presence of others</td>
</tr>
<tr>
<td>• Understanding abstract language</td>
<td>• Lack of functional use of objects, e.g., lining up toys, spinning wheels</td>
<td>• Understanding people’s feelings and perspective</td>
</tr>
<tr>
<td>• Maintaining attention/changing focus rapidly</td>
<td>• Unusual body movements or repetitive behaviours, e.g., rocking, flapping fingers</td>
<td>• Developing friendships</td>
</tr>
<tr>
<td><strong>Expressive Language</strong></td>
<td>• Limited coping strategies</td>
<td>• Understanding unwritten social rules</td>
</tr>
<tr>
<td>• Limited vocabulary (students repeat prompted language)</td>
<td>• Inability to regulate arousal level</td>
<td>• Demonstrating limited/unusual emotional responses</td>
</tr>
<tr>
<td>• Echolalia (students with echolalia may present as functionally verbal)</td>
<td>• Inflexible thinking</td>
<td>• Sustaining a conversation</td>
</tr>
<tr>
<td>• Improper use of pronouns, questions, statements</td>
<td><strong>Contributors to Anxiety</strong></td>
<td><strong>Social Skills</strong></td>
</tr>
<tr>
<td>• Unusual tone or rhythm of speech</td>
<td>• Dealing with unexpected events</td>
<td>Specific social skills should be taught in context in a variety of settings, e.g., recess, lunch and classroom setting.</td>
</tr>
<tr>
<td>• Use of scripts, e.g., lines from movies repeated out of context</td>
<td>• Accepting changes at home/school</td>
<td></td>
</tr>
<tr>
<td><strong>Pragmatics</strong></td>
<td>• Adapting to new situations</td>
<td></td>
</tr>
<tr>
<td><em>Affects both Receptive and Expressive Language</em></td>
<td>• Understanding responses of others</td>
<td></td>
</tr>
<tr>
<td>• Interpreting non-verbal cues, e.g., body language, facial expression</td>
<td><strong>Behaviours May Be Indicating</strong></td>
<td></td>
</tr>
<tr>
<td>• Maintaining a specific topic</td>
<td>• A need for attention, “Look at me”</td>
<td></td>
</tr>
<tr>
<td>• Relating comments in appropriate situations</td>
<td>• An attempt to have tangible needs met, e.g., “I want …”, “I’m hungry”, “I’m tired”</td>
<td></td>
</tr>
<tr>
<td>• Turn taking in a conversation</td>
<td>• A need to escape, “I don’t understand this and I want to do something else”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• An attempt to regulate sensory stimulation, e.g., “It is too loud in here”</td>
<td></td>
</tr>
</tbody>
</table>

**ALL THREE AREAS OF IMPAIRMENT INTERCONNECT AND ARE NOT MUTUALLY EXCLUSIVE**
# 7. Critical Information Sheet

## Critical Information Sheet at a Glance

<table>
<thead>
<tr>
<th>Student Name:</th>
<th>Teacher:</th>
<th>Grade:</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Communication</th>
<th>Reinforcers</th>
<th>Sensitivities</th>
<th>Descriptions of Challenging (Target) Behaviour</th>
</tr>
</thead>
<tbody>
<tr>
<td>How does student communicate?</td>
<td>List highly preferred/interesting likes/reinforcers.</td>
<td>Is change a challenge for student?</td>
<td>Are specific behaviours observed that would define student’s target behaviour? (Describe in detail, as if to a stranger.)</td>
</tr>
<tr>
<td>Verbally: Yes</td>
<td>No</td>
<td>Yes/No</td>
<td></td>
</tr>
<tr>
<td>PECS:</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Sign language:</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>Combination of above:</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>None of above:</td>
<td>Yes</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td>How does student let you know:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Wants/Needs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Protest/Refusal</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Assistance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• To stop</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Need for bathroom</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Sick</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Is a visual schedule used? Yes</td>
<td>No</td>
<td></td>
<td></td>
</tr>
<tr>
<td>How do you provide information?</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Visual references:</td>
<td>Pictures:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Objects:</td>
<td>Signs:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gestures:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Strengths of student (list three):</td>
<td></td>
<td></td>
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</tbody>
</table>

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Thames Valley Children's Centre, South West Region
### 8. Student Profile

#### The Student

<table>
<thead>
<tr>
<th>What things does the student like?</th>
<th>What things does the student dislike?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>What activities does the student enjoy?</th>
<th>What activities does the student NOT enjoy?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>In which activity, game, or sport does the student do well?</th>
<th>In which activity, game, or sport does the student need help?</th>
</tr>
</thead>
<tbody>
<tr>
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</table>

#### Strengths | Interests | Needs |
<table>
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</tr>
</tbody>
</table>

(continued)
## Student Profile

This is a list of events or situations the student may find stressful, and some strategies that may help.

<table>
<thead>
<tr>
<th>Stressors</th>
<th>Strategies</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tbody>
</table>

**Documentation:**

This student has a safety plan: yes ____ no _____ that is ____ / is not _____ included.

Specify incidents that need to be documented:

____________________________________________________
____________________________________________________
____________________________________________________
____________________________________________________
9. Promoting Independence

Promoting Independence
Flow Chart

Determine Skill & Determine Instruction

Step 1:
What are all the steps?

Step 2:
Which steps can the student do independently and with which ones does the student require assistance?

Visual
Gesturing
Modelling
Verbal Instruction
Physical Guidance

Step 3:
For the steps with which the student needed assistance, what type of assistance was needed?

Step 4:
How do I support the student to perform the skill independently?

Visual + Physical Guidance
Visual + Modelling
Visual + Gesturing
Visual

Erinoak, Central West Region
10. Inventory of Functional Skills

<table>
<thead>
<tr>
<th>Rubric/Evaluation Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>S</strong> = Spontaneous</td>
</tr>
<tr>
<td><strong>C</strong> = Cue</td>
</tr>
<tr>
<td><strong>PG</strong> = Partial Guide</td>
</tr>
<tr>
<td><strong>FG</strong> = Full Guide</td>
</tr>
<tr>
<td><strong>N.A.</strong></td>
</tr>
</tbody>
</table>

1. **SCHOOL ARRIVAL**

a) **Entry Routine**

<table>
<thead>
<tr>
<th>Activity</th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Get off bus with backpack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walk toward school</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open school door</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enter school building</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greet familiar adults or peers</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Go to office/guidance office for admit or late slips (if necessary)</td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

b) **Locker Routine**

<table>
<thead>
<tr>
<th>Activity</th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Walk to locker area OR wait to meet friend(s) and walk together</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Find own locker</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove mitts/gloves and place in pocket of jacket</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open lock and pull lock open</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove lock</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open locker door</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place lock on hook</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>
### c) Organization and Life Skills

<table>
<thead>
<tr>
<th>Activity</th>
<th>SC</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove backpack and place on floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open backpack, remove lunch and put in locker</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove hat/jacket (e.g., unzip/unbutton)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hang hat/jacket on hook in locker</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take off boots and place on locker floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Get shoes from locker/backpack</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put on shoes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open backpack, remove lunch and put in locker</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remove hat/jacket (e.g., unzip/unbutton)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hang hat/jacket on hook in locker</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Take off boots and place on locker floor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Get shoes from locker/backpack</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put on shoes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Review timetable on inside of locker door</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gather books for morning classes and place in backpack</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pick up lock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Close locker door</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insert lock</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Snap lock shut</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check watch for time to go to class</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hang out at locker with friends till warning bell OR go to homeroom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interact with friends</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drink from water fountain in hallway – wait till fountain is free</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 2. LIFE SKILLS – PERSONAL CARE

#### a) Washroom Routines

<table>
<thead>
<tr>
<th>Activity</th>
<th>SC</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go to designated washroom (male/female) with backpack</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Open washroom door and enter</td>
<td></td>
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</tr>
<tr>
<td>Find empty cubicle and enter OR wait till cubicle is free</td>
<td></td>
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<tr>
<td>Close and lock cubicle door</td>
<td></td>
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<tr>
<td>Place backpack on floor or hang on hook</td>
<td></td>
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</tr>
<tr>
<td>Complete toileting – use toilet paper, flush, etc.</td>
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</tr>
<tr>
<td>Get backpack</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Unlock cubicle door and exit</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use tissue and place in trash when finished</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wash and dry hands at sink – use paper towels and place in trash can OR use mechanical hand dryer</td>
<td></td>
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</tr>
</tbody>
</table>
### Tools and Techniques

#### Secondary School Inventory

**b) Grooming**

<table>
<thead>
<tr>
<th>Activity</th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enter washroom</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Get comb/brush from backpack</td>
<td></td>
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<tr>
<td>Look in mirror and comb/brush hair</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put comb/brush in backpack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Adjust clothing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exit washroom</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

#### 3. ROTATION

**a) Hallways**

<table>
<thead>
<tr>
<th>Activity</th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carry backpack (e.g., by hand, over shoulders)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walk to class</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walk on right side of hallway</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Adjust walking pace depending on traffic (e.g., slow down, walk faster)</td>
<td></td>
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<tr>
<td>Walk with traffic</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walk around crowds or wait till crowd disperses</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Climb up or down staircase (on right side)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**b) Doorways**

<table>
<thead>
<tr>
<th>Activity</th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open doors (as needed) OR hold onto open door if opened by others</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Walk through doorway</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Hold onto open door if others are walking through</td>
<td></td>
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</tr>
</tbody>
</table>

#### 4. CLASSROOM ROUTINES

**a) Entry Routine**

<table>
<thead>
<tr>
<th>Activity</th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Find classroom door</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open classroom door</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enter classroom</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Hand teacher note/homework (as appropriate)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Give teacher message (if applicable)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Find own desk and sit in chair</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Place backpack on back of chair or floor</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Participate in Opening Exercises in homeroom or first class (e.g., stand for anthem, respond when name called for attendance, listen to announcements)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Interact with classmates (as appropriate)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
5. **LEARNING STRATEGIES**

### a) Organization Skills

<table>
<thead>
<tr>
<th></th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open backpack</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Remove materials for class (textbook, binder, pencil case, etc.)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Open binder to appropriate subject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remain sitting in chair at desk</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interact with friends till class begins (as appropriate)</td>
<td></td>
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</tbody>
</table>

### b) Homework

<table>
<thead>
<tr>
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<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remain sitting in chair at desk</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Open binder to appropriate subject</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Find previous day’s homework</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Participate in taking up homework (e.g., follow oral questions/answers, check own written answers, make corrections as needed)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Answer question(s) when called upon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raise hand to offer answer(s), wait until called upon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower hand if not called upon for answer(s)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Advocate on behalf of self (e.g., request assistance, clarification)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### c) Lesson

<table>
<thead>
<tr>
<th></th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attend to lesson and presentation of materials</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Remain on task during oral lesson</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Answer question(s) when called upon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Raise hand to offer answer(s), wait until called upon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower hand if not called upon for answer(s)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advocate on behalf of self (e.g., request assistance, clarification)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

### d) Seatwork

<table>
<thead>
<tr>
<th></th>
<th>S</th>
<th>C</th>
<th>PG</th>
<th>FG</th>
<th>NA</th>
<th>COMMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pass out worksheet (e.g., pass back, pass forward)</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Take worksheet(s) papers when passed out</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Show politeness and courtesy (please, thank-you)</td>
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</tbody>
</table>
**Tools and Techniques**

(continued)

<table>
<thead>
<tr>
<th>d) Seatwork (cont’d)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remove item(s) from pencil case as needed (e.g., pencil/pen, eraser, ruler, correction fluid, pencil sharpener)</td>
</tr>
<tr>
<td>Sharpen pencil (e.g., portable or class sharpener)</td>
</tr>
<tr>
<td>Write name and date on worksheet</td>
</tr>
<tr>
<td>Advocate on behalf of self (e.g., request assistance, clarification)</td>
</tr>
<tr>
<td>Open binder to take out blank sheet and close binder</td>
</tr>
<tr>
<td>Copy from board</td>
</tr>
<tr>
<td>Complete assigned task(s)</td>
</tr>
<tr>
<td>Move from one seatwork activity/task to another</td>
</tr>
<tr>
<td>Use eraser and correction fluid as appropriate</td>
</tr>
<tr>
<td>Raise hand to request help if needed</td>
</tr>
<tr>
<td>Put completed seatwork in designated area</td>
</tr>
<tr>
<td>Put marked/unmarked work in appropriate place(s)</td>
</tr>
<tr>
<td>Copy homework into agenda book</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>e) Group Work</th>
</tr>
</thead>
<tbody>
<tr>
<td>Move chair and desk to form small group</td>
</tr>
<tr>
<td>Participate in group discussion (small and large groups)</td>
</tr>
<tr>
<td>Participate in presentation of project</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>f) Organization and Class Dismissal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear desk (e.g., put materials away in backpack)</td>
</tr>
<tr>
<td>Refer to timetable to check about next class</td>
</tr>
<tr>
<td>Line up at door</td>
</tr>
<tr>
<td>Interact with classmates</td>
</tr>
<tr>
<td>Leave classroom when bell rings or when dismissed by teacher</td>
</tr>
<tr>
<td>Go to next class</td>
</tr>
</tbody>
</table>

Secondary School Inventory
The Autism Transitional Classroom

The Autism Transitional Classroom creates the opportunity for treatment providers and educators to bridge the gap between treatment and special education, and to give students who have an Autism Spectrum Disorder the intensive support required to function successfully in an educational setting. Specifically, the transitional aspects of the treatment program focus on teaching educators basic intervention skills and a method for translating them into special education strategies. This demands a very strong commitment of staff time from the school board, based on the idea that the amount of time committed by the school board will match the size of the child’s need. The partnership between Chatham-Kent Children’s Services and the St. Clair Catholic District School Board, with the support of the Ministry of Education, provides an opportunity for professionals, children, and families to meet these challenges.

The formal criteria for admission to the classroom require that the child has a diagnosis of an autistic disorder or other pervasive developmental disorder made by a qualified registered psychologist. In addition, the child must be referred to the program by the CKCS Autism Team or the St. Clair Catholic District School Board, and be a client of the CKCS Autism Team. The program, housed onsite at Chatham-Kent Children’s Services, consists of one classroom and one teacher with space for six full-time equivalent students. The CKCS Autism Team provides clinical support to the program. Consideration is given to students whose current school placement breaks down in such a way that training or retraining of that student and his/her resource team has a high probability of restoring the success of the child’s current placement.

The Autism Transitional Classroom’s primary goal is to provide a program that is:

1) designed to translate treatment goals and techniques into special education strategies that, through intensive training, can be implemented by school personnel within the context of an IEP;
2) individualized; and
3) based on the scientific principles of applied behaviour analysis (ABA) and reinforcement.

As the name implies, the program aims to help educators teach children with Autism Spectrum Disorders by providing temporary but very intensive supports to the educational professionals to adapt and apply the special education strategies in the least intrusive environment possible. Hence, the intervention is client-centred, seeks to create innovative learning environments within schools across Chatham-Kent, and celebrates the achievements of students and professionals alike.

Description of the Autism Transitional Classroom Training Program

All treatment and training provided by the CKCS Autism Team is based on the scientific principles and data supporting the approach known as applied behaviour analysis (ABA). The best practice application of this clinical philosophy is known as intensive behavioural intervention (IBI). Funded regional autism service programs provide treatment based on ABA/IBI, and in keeping with the idea of an unbroken continuum of service, the Autism Transitional Classroom program is based on these same principles.
The program is intensive and uses individually administered techniques to meet the needs of children with higher needs, often those with a dual diagnosis of autism and a developmental disability. The Essential Transitional Curriculum (ETC) provides special education programming using behavioural intervention techniques that are translated into individualized special education strategies. The educational staff are taught how to individualize programs for each child, how to make the materials to implement the programs, and how to maintain the programs so that they grow with the child.

**Professional Development and Guidance of the Educational Program**

The staff training model embedded in the Essential Transitional Curriculum means that the primary day-to-day resource for the teacher, educational assistant, and resource staff in the program is the CKCS clinical staff. Therefore, professional development for educators occurs constantly and is one of the primary goals of the Autism Transitional Classroom. The program requires consultation and guidance from an educator with extensive knowledge of the procedures, regulations, and practices surrounding the IEP process.

**Multidisciplinary Planning of the Child’s Program**

The Autism Transitional Classroom draws on the full resources of the CKCS Autism Team, which includes a psychologist, senior therapist, two child and family consultants, two lead therapists, four instructor/therapists, and an autism support worker. The St. Clair Catholic District School Board provides a classroom teacher, educational assistant, and team support.

- a) The target skill must be essential to the child’s adjustment to a classroom environment, whether that is a special education classroom with a relatively small number of students or a regular classroom with a larger number of students.
- b) The teaching program and materials must resemble special education teaching strategies and materials more closely than they resemble specialized treatment strategies and materials.
- c) The programs must be written so that a “typical” educational assistant or other special education resource staff member with no prior knowledge of treatment principles or techniques can learn to implement them.
- d) The programs must meet the child’s learning needs in ways that are either compatible with or do not disrupt the teaching of other children in the classroom, unless an isolated teaching environment is both required and available.
- e) The programs must match the parameters/requirements of the formal IEP process.

**Planning and Coordination of Transition from the Autism Transitional Classroom to Local Schools**

As the name “Autism Transitional Classroom” implies, the entire focus of this project is to create a process for helping children to make this transition. The model is designed to allow educators to practise and master the skills needed to assemble and implement the resources required by children with Autism Spectrum Disorders. Transition planning involves the receiving school staff visiting the classroom for training, the Autism Transitional Classroom attending at the home school to provide support, and parent involvement in the entire process.
12. Think Tank on Autism

The TDSB’s Think Tank on Autism (May 2006)
Report of Findings

Executive Summary
Prepared for The Toronto District School Board, August 2006
by Denyse Gregory, Research & Evaluation Consultant

In May 2006, the Toronto District School Board (TDSB) conducted a Think Tank on Autism to address issues related to the education of students with Autism Spectrum Disorders (ASD) in the TDSB. The purpose of the Think Tank was to bring together a cross-section of people from various stakeholder groups to gain from their collective wisdom.

The session featured representation from parents and students, parent and student advocates, the medical profession, government, universities, agencies, the Ontario Human Rights Commission, and a variety of staff from the TDSB and other neighbouring boards.

The agenda was designed to raise awareness, establish collaborative networks, share best practices, improve accessibility, collaboratively problem-solve, and create positive momentum to move forward to support student success.

The report of the findings of the event summarized the discussions that took place that day, as well as the feedback of the participants about the Think Tank process itself. The greatest challenge in the reporting was that the diversity of the stakeholders participating in the Think Tank naturally resulted in a wide variety of perspectives and insights. Nevertheless, a number of themes emerged repeatedly in the feedback provided. The key themes are summarized below.

Defining Success for Students on the Autism Spectrum

Participants defined “success” for students on the autism spectrum in a variety of ways. The most prevalent were improvements in the following student outcomes:

- improved social skills and relationships with peers;
- enhanced emotional well-being (e.g., self-confidence, attitude toward school and comfort level);
- increased academic progress;
- life skills learnings (e.g., independence and communication skills); and
- improved transitions to regular schooling or to post-secondary options.

Factors Contributing to Student Success

➤ Students’ Strengths:
Participants identified a multitude of the strengths of students with ASD that contributed to their success. The most prevalent of these were:

- personal characteristics such as motivation, perseverance, and a strong sense of self; and
- learning strengths such as effective communication skills (in particular, strong verbal skills),
- strong academic skills, and an ability to work cooperatively with their peers.

➤ Programs and Services:
Participants identified a variety of programs and services that they believed contributed to the success of students on the autism spectrum. The most prevalent of these were:

- holistic, child-centred programming, characterized by features such as the identification of students’ individual needs and strengths, utilization of a variety of strategies and approaches, and the involvement of TDSB support services;

(continued)
a supportive home environment in which the student’s parents are actively involved and engaged as partners with the school;
• a supportive school environment that involves the direct support and involvement of teachers, EAs, resource teachers, and support services (e.g., psychologists and speech language pathologists); and
• partnerships with community agencies such as Surrey Place Centre and The Geneva Centre for Autism.

Recommendations
Participants offered a variety of valuable suggestions and recommendations for next steps, both immediate and long-term. The most predominant of these were as follows:

➢ Expand professional development and training opportunities for teachers, EAs, support staff, and administrators to increase awareness and understanding and to improve service delivery for all of those working with students on the autism spectrum.

➢ Continue the dialogue with other professionals and parents to understand autism better and to identify ways to improve program delivery and support for students with ASD.

➢ Employ a more coordinated, team approach to enhance program delivery in all schools by:
  ▪ increasing the focus on the identification of each child’s particular needs;
  ▪ enhancing the in-house support available to students with ASD (e.g., EAs, occupational therapists, language pathologists, and ABA training);
  ▪ establishing PDD/ASD teams in all four quadrants and assigning a “case manager” to coordinate program delivery within each family of schools or quadrant;
  ▪ fostering partnerships and communication with parents; and
  ▪ fostering partnerships/collaboration with community service providers or agencies to maximize awareness and use of the available resources.

➢ Provide greater support for families of students on the autism spectrum to empower them in the process of educating their child. This includes informing parents about the options available to them, providing or connecting them to outreach programs to support families, and facilitating crisis management for families.

➢ Promote acceptance and tolerance of diversity within the education system and within the community as a whole. Specifically, it was suggested that the TDSB and community partners take steps to “combat the stigma of ASD” and to “debunk the myths” of ASD.

The Think Tank Process
Participants in the Think Tank on Autism were given an opportunity to comment on the Think Tank process via an online feedback form. In general, respondents rated the Think Tank on Autism session as very engaging. The content was rated as helpful and very relevant. Finally, the format of the day was thought to be conducive to dialogue and to the sharing of ideas.

Respondents’ comments suggested that they appreciated the opportunity to work together with the various stakeholder groups. As articulated by one of the respondents, “The session was a good example of how it is possible for different stakeholders to work together for the common good of students with exceptionalities.”
Brant Haldimand Norfolk Catholic District School Board

Ensuring a Successful Transition:
A Resource for Transportation Drivers

The Brant Haldimand Norfolk Catholic District School Board recognizes the many challenges students with Autism Spectrum Disorder (ASD) face with the transition from home to school and school to home. We appreciate the fact that the bus drive to and from school can have a direct impact on how successful the day will be. Thus, in conjunction with the ASD School Support Program, a resource is being developed to assist transportation drivers with this very important transition.

After consultation with the transportation department, drivers were asked to identify their needs when transporting students with ASD. Areas of greatest concern included strategies to assist with difficult behaviours, prevention of bullying, communication techniques between home/school/bus, and a heightened understanding of the disorder.

The transportation resource initiative will include a teaching component and the creation of a resource based on drivers’ needs. The teaching component will include in-service training that will provide an overview of ASD, specifically focusing on the characteristics that might lead to difficulties on the bus. Scenarios describing frequently observed behaviours on the bus and specific strategies to assist the student with ASD will also be presented. Strategies to be discussed include:

- Prearranged visits with the school
- Social narratives and schedules
- Recognizing anxious behaviour and how to deal with it
- The use of visuals
- Reinforcement systems
- Buddy system
- Identifying the behavioural triggers of a student with ASD
- Home/school/bus–school/home communication sheet
- Consistent seating
- Rules on the bus
- Sameness and predictability
- Tangible activities that can occupy students on the bus
- Creation of an emergency plan

Three possible resources are currently being created for transportation drivers. The resources, which will be introduced at an in-service, are as follows:

1. A chart-style resource, which can be laminated and posted on the bus, that includes essential information such as:
   - an overview of ASD;
   - a list of behaviours that may occur on the bus; and
   - a list of strategies to assist the ASD student with these behaviours.

2. A smaller version of the chart that can be laminated and placed on the visor above the driver’s seat. Information will include a list of behaviours with accompanying strategies. The driver simply flips down the visor and has quick reference to strategies.

3. Small laminated cards that can be placed on a key ring so that transportation drivers can wear it on their belt loop as a quick reference guide to behavioural strategies.

A simple communication sheet has also been developed to facilitate communication between parents, transportation drivers, and school staff. This resource would provide essential information to ensure successful transitions from setting to setting.
14. Transportation Visuals

- **Bus to School**
  - Watch for bus
  - Walk to bus
  - Get on bus
  - Find an empty seat
  - Sit down
  - Quiet hands
  - Quiet voice
  - Get off bus
  - Go to class

- **Bus to Home**
  - Walk to bus stop
  - Line up for bus
  - Get on bus
  - Find an empty seat
  - Sit down
  - Quiet hands
  - Quiet voice
  - Watch for stop
  - Get off bus
  - Go home

Brant Haldimand Norfolk Catholic District School Board
Avon Maitland District School Board
Autism Demonstration Site

In 2003–2004 the Avon Maitland District School Board established an “Autism Demonstration Site”. The goal of this site is to provide classroom teachers, educational assistants, principals, and vice-principals access to personnel with hands-on experience dealing with students who have been diagnosed within the Autism Spectrum.

- Visitors to the site interact with specially trained Autism Demonstration Site staff via a tour of individual classrooms and a small-group presentation format.

- The purpose of the tour is to model the creation of appropriate environments, implementation of specialized teaching strategies, and successful, research-based behaviour management techniques. This is achieved through direct observation of students and teachers in action. The observation includes students in regular primary classroom settings as well as specialized classroom settings.

- The small-group presentation primarily includes an overview of the essential aspects of a student’s profile within the autism spectrum and related educational implications, a description of available district resource materials, and a Q&A session.

- On each tour date, the site is supported by the school’s assigned speech and language pathologist, the special education consultant, and an ASD consultant from the Thames Valley Children’s Centre.

- Since its inception, approximately 40 people a year have taken advantage of the opportunity to visit the site.

- Participants have commented on the extensive knowledge base of the Autism Demonstration Site staff, the opportunity to see appropriate materials and resources, the benefits of first-hand viewing of specialized teaching strategies, and practical sensory room ideas on a budget!
### 16. Strategies Checklist

<table>
<thead>
<tr>
<th>Environmental</th>
<th>Communication</th>
<th>Instructional</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Intensive support</td>
<td>- Use concrete and specific language</td>
<td>- Use the student’s strengths</td>
</tr>
<tr>
<td>- Study carrel/alternative space</td>
<td>- Clarify idioms, words with double meanings</td>
<td>- Apply learning to real situations</td>
</tr>
<tr>
<td>- Small-group support</td>
<td>- Slow down language – one command at a time, short, clear phrases</td>
<td>- Rote learning</td>
</tr>
<tr>
<td>- Limit adults involved</td>
<td>- Break tasks into smaller steps</td>
<td>- Visual supports</td>
</tr>
<tr>
<td>- Modified schedule/day</td>
<td>- Use gestures, modelling, and demonstrations with verbalizations</td>
<td>- Maintain context, vary content</td>
</tr>
<tr>
<td>- Consistent daily routine</td>
<td>- Write down requests, instructions</td>
<td>- Present new concepts in a concrete manner</td>
</tr>
<tr>
<td>- Minimize transitions</td>
<td>- Engage attention visually, verbally, and physically before giving information</td>
<td>- Divide instruction into small, sequential steps</td>
</tr>
<tr>
<td>- Keep familiar, acquired activities in the program as new ones are added</td>
<td>- Watch and listen to response attempt – respond positively to any attempt</td>
<td>- Reduce/chunk information</td>
</tr>
<tr>
<td>- Visual organizers</td>
<td>- Model correct format</td>
<td>- Written instructions</td>
</tr>
<tr>
<td>- Priming</td>
<td>- Provide alternative forms of communication</td>
<td>- Highlight key information</td>
</tr>
<tr>
<td>- Prepare for changes</td>
<td>- Use visual cues to support understanding</td>
<td>- Colour code materials</td>
</tr>
<tr>
<td>- Alter physical arrangement of room</td>
<td>- Provide scripts for language</td>
<td>- Indicate start and stop of activity</td>
</tr>
<tr>
<td>- Provide adaptive equipment</td>
<td>- Use the student’s strengths</td>
<td>- Preteach vocabulary, skills</td>
</tr>
<tr>
<td>- Strategic seating</td>
<td>- Apply learning to real situations</td>
<td>- Duplicated notes</td>
</tr>
<tr>
<td>- Preferential coat hook/locker position</td>
<td>- Reduce/chunk information</td>
<td>- Computer assisted learning</td>
</tr>
<tr>
<td>- Chair/mat/seating</td>
<td>- Maintain context, vary content</td>
<td>- Timer/time management aids</td>
</tr>
<tr>
<td>- Visual timer</td>
<td>- Present new concepts in a concrete manner</td>
<td>- Graphic organizers</td>
</tr>
<tr>
<td>- Reduce distraction and sensory overloads</td>
<td>- Divide instruction into small, sequential steps</td>
<td>- Structured cooperative experiences</td>
</tr>
<tr>
<td>- Sensory breaks</td>
<td>- Tangible rewards</td>
<td>- Instructor proximity</td>
</tr>
<tr>
<td>- Supervision during unstructured events</td>
<td>- Praise</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Motivational</th>
<th>Self-Regulation</th>
<th>Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Visual cues</td>
<td>- Direct instruction</td>
<td>- Apply learning to real situations</td>
</tr>
<tr>
<td>- Meaningful experiences</td>
<td>- Safe person</td>
<td>- Shorten or alter activities</td>
</tr>
<tr>
<td>- Ensure comprehension</td>
<td>- Communication book</td>
<td>- Provide choice of activity for assessment</td>
</tr>
<tr>
<td>- Utilize student’s interests</td>
<td>- Tracking sheet</td>
<td>- Teach format ahead of time through rehearsal</td>
</tr>
<tr>
<td>- Immediate feedback</td>
<td>- Teach relaxation strategies</td>
<td>- Wait time for processing or task completion</td>
</tr>
<tr>
<td>- First … then strategy</td>
<td>- Redirection</td>
<td>- Allow oral responses</td>
</tr>
<tr>
<td>- Naturally occurring reinforcers</td>
<td>- Distraction</td>
<td>- Scribe answers for student</td>
</tr>
<tr>
<td>- Vary reinforcers and provide choice of reinforcers</td>
<td>- Tangible rewards</td>
<td>- Provide visual cues as a way to teach how to summarize or write</td>
</tr>
<tr>
<td>- Reinforce any attempt towards goals and objectives</td>
<td>- Praise</td>
<td>- Break the assessment into smaller chunks and spread out testing</td>
</tr>
<tr>
<td>- Encourage, accept, and teach choice making</td>
<td>- Immediate feedback</td>
<td>- Editing support</td>
</tr>
<tr>
<td>- Invite and encourage natural initiation of tasks</td>
<td>- First … then strategy</td>
<td>- Calculator/matrix</td>
</tr>
<tr>
<td>- Visual timer</td>
<td>- Red … green strategy</td>
<td>- Alternative setting</td>
</tr>
<tr>
<td></td>
<td>- Social narratives</td>
<td>- Incidental assessment</td>
</tr>
<tr>
<td></td>
<td>- Comic strip conversations</td>
<td></td>
</tr>
</tbody>
</table>
Creating an Autism-Friendly Classroom:
The Classroom Layout

The classroom itself can be set up to support the student’s learning and minimize challenging behaviours. A visually organized classroom can support the learner in orienting himself or herself and can help the learner navigate the learning environment.

Furniture Placement:

- Lay out furniture to create boundaries that support learning, minimize distractions, and facilitate transitions.
- Use furniture, carpets, tape, shelving units, filing cabinets, etc., to make activity areas clearly visible and regulate traffic flow.
- Minimize wide open areas to reduce running in physically active students who have difficulty with transitions.
- Locate free choice and leisure time areas away from exits.
- Be consistent about the location of workstations and learning centres.
- Clearly mark different areas with meaningful visual cues.
- Initially use learning centres only for their designated purposes to teach relevance and provide predictable structure.
- Plan for multiple activities occurring simultaneously with the least distraction.
- Provide a quiet place for students to get away from distractions and stimulation and take a break if they need to.

Traffic Patterns:

- Mark traffic flow of students and staff clearly to meet the learner’s needs by reducing wait times.
- Mark arrows or footprints on the floor to show students how to get from one area to another.
- Try to match the flow of traffic in the room to the daily routines.

Storage:

- Make instructional and reward items easily and immediately accessible without being inadvertently distracting.
- Consider labelling work/activity bins on the outside with pictures, the item, or symbols that the student will understand.

Surrey Place Centre, Toronto Region

(continued)
Tools and Techniques

Visual Supports:

- Present visuals at the students’ eye level.
- Make visuals available in locations that will support appropriate behaviour. Consider both posting visuals outside the classroom and carrying them.
- Make sure that images selected are specific to the event or activity you want to depict. Students with ASD can be easily distracted by unrelated details, so be careful about what is “accidentally” in your picture.
- Make sure that rules are posted in problem areas. If there is not a specific location, either post rules at eye level in central locations of the class or carry them.
- Limit clutter in the classroom. Limit materials in areas where the student with ASD is required to concentrate (e.g., behind the teacher at circle time) so that the student can focus on your instructions and not on background distractions.
- Limit materials on bulletin boards. Try to remove materials as themes finish so that the current themes are most prominent, rather than keeping them on display for the school year.
18. Morning Routine

Morning Routine

Hang up coat and backpack

Show toy to teacher

Put toy in box

Ready to work!

Pathways for Children and Youth, South East Region

ASD Resource Team

Safety Plan: Crisis Protocol
Ensuring Positive School Environments

Name: _______________________________ Date Developed: ____________________________
Parent Contact: ___________________________ Review Dates: __________________________
Emergency Contact: ____________________________

Unsafe Behaviour(s) ____________________________

Staff Expectation: Reduce talking, planned proximity (tone/volume/control)

<table>
<thead>
<tr>
<th>Stage 1: Escalation</th>
<th>Escalating Behavioural Signals (Observable signs of increased anxiety/agitation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Behaviour</td>
<td>Strategy</td>
</tr>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 2: Crisis</th>
<th>Crisis Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adults to be called:</td>
<td>If</td>
</tr>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Stage 3: Coping</th>
<th>Supported Self-Control (soothe and redirect)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td></td>
</tr>
</tbody>
</table>

Staff Training
First Aid: ____________________________ Date: ____________________________
Other: ____________________________ Date: ____________________________

Parent Signature: ____________________________ Date: ____________________________
Principal Signature: ____________________________ Date: ____________________________
Psychologist Signature: ____________________________ Date: ____________________________
20. Information for Occasional Teachers

CONFIDENTIAL

Student Information for Occasional Teachers

One of my students, ________________, has a neurological condition known as Autistic Spectrum Disorders (ASD). As a result, certain things in the school setting are difficult for this student. Students with ASD typically have trouble in social situations and when their routine is changed.

The following is a list of situations that might be difficult for this student to handle:

The following is a list of behaviours the student might exhibit when feeling overwhelmed or under stress:

The following is a list of strategies you can use when you see the student exhibiting these behaviours:

Anxiety can be a serious problem for children with ASD, and it can escalate rapidly. If you notice this student doing any of the following:

________________________________________________________________________
________________________________________________________________________
immediately ask _______________________________ in room number _______ to help you.

Please do not try to handle this type of behaviour on your own because there are specific methods for doing so.
21. Suggestions to Support Transitions

The following are suggestions that may offer additional support to students who have a difficult time with transitions. The goal of these suggestions is to make the transition process a positive experience for all involved.

Suggestions:

- Have the student meet all of the teachers that will be teaching the student in the upcoming year.
- Take pictures of each of the teachers to put into a mini photo album. Label the pictures with the teachers’ names and the subjects they teach.
- Create checklists for each subject (e.g., what tools are needed to be successful in class).
- Create a map of the school that includes routes to each class.
- Assign a locker to the student.
- Have a support person in place to greet the student upon arrival at the classroom. Have the support person accompany the student en route to the next class.
- Have the student follow a few days of the school cycle. Ideally, over a few days the student would have the opportunity to attend each class at least one time.
22. Preparing Students for a Special Event

10 Things to Remember When Preparing Students for a Special Event

1. Explain to your students what to expect from the event IN ADVANCE.

2. Set out guidelines and expectations of behaviour.
   
   3. Give your student a predetermined “way out” if the student cannot cope.
   
   4. Expose the student to the sights, sounds, and smells before the event – it can be overwhelming!

5. Ensure that you have an “emergency card” containing necessary information, including how to get help if needed.

6. Practise social interactions with social scripts so that the student can participate more easily.

   7. Promote the maintenance of structured days throughout the holiday period (e.g., homework, schedules).

   8. Use a calendar to show the student when he or she will be on holiday and when he or she will return to school.

9. Make a story of the actual event, holiday destination, or trip using pictures, photographs, etc.

10. Practise reading signs in the environment, particularly the signs for the toilets!
## 23. Task Sequence for Home Time

### VISUAL SUPPORTS (Task Sequence)

<table>
<thead>
<tr>
<th></th>
<th>Home Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>I put my headset into my brown bag.</td>
</tr>
<tr>
<td>2</td>
<td>I line up.</td>
</tr>
<tr>
<td>3</td>
<td>I walk quietly into the hallway with my teacher.</td>
</tr>
<tr>
<td>4</td>
<td>I put my headset into my backpack.</td>
</tr>
<tr>
<td>5</td>
<td>I put on my coat.</td>
</tr>
<tr>
<td>6</td>
<td>I put on my boots.</td>
</tr>
<tr>
<td>7</td>
<td>I put on my hat and scarf.</td>
</tr>
<tr>
<td>8</td>
<td>I put on my gloves.</td>
</tr>
<tr>
<td>9</td>
<td>I put on my backpack.</td>
</tr>
<tr>
<td>10</td>
<td>I line up and wait for the bell to ring.</td>
</tr>
<tr>
<td>11</td>
<td>I walk with my teacher to the front door.</td>
</tr>
<tr>
<td>12</td>
<td>I wait for my mom to pick me up.</td>
</tr>
<tr>
<td>13</td>
<td>I walk to the car and say, “Hi, Mom”.</td>
</tr>
</tbody>
</table>

Have the student check off each box on completion of each sequence.
24. Visuals for Transition from School to Home

Transition Tasks - School to Home

- Home time
- Get ready
- Tidy up
- Open locker
- Get dressed
- Backpack
- Close locker
- Line up
- Leave school
- Leave school
- Good-bye
- School bus

Toronto Catholic District School Board
25. Visual Steps for Using Workout Room

Workout Room

1. Go to the workout room.  

2. Roll on the exercise ball.  

3. Squeeze bag and lift weights.  

4. Walk on the treadmill.  

5. Ride the bicycle.  

Toronto Catholic District School Board
26. Visuals for School Activities

School Activities

- walk in hall
- walk
- classroom
- work
- workout room
- gym
- school library
- computer
- computer work
- field
- tidy up
- calendar

Toronto Catholic District School Board
27. Visuals for Going to Work

**Going to Work**

- **make lunch**
- **lunch in backpack**
- **dress for outside**
- **let’s go to work**
- **TTC bus**
- **check in with boss**
- **jobs**
- **break**
- **eat lunch**
- **more jobs**
- **see boss**
- **pay**
- **buy snack**
- **TTC bus**
- **school**

Toronto Catholic District School Board
28. Bus Rules

1. Sit in your seat when the bus is moving.

2. Keep your hands inside the bus.

3. Walk in the aisle.

4. Use a quiet voice on the bus.

5. Keep your hands and feet to yourself.
### Getting Ready for the Bus

<table>
<thead>
<tr>
<th>Activity</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tidy up my desk</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put my lunchbox away</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put my agenda away</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Get my backpack</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Put on my hat, coat, and mitts</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Line up at the door</td>
<td></td>
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</tbody>
</table>
### At a Glance
#### Individualized Daily Schedule

Students with ASD may have events that occur in their daily school life that might not be part of the typical schedules of many of their peers, yet these events are very important for the involved students. Such events might include a special transportation arrival time, medication times, or times devoted to work with educators other than the classroom teacher. This individualized daily schedule of what will happen most school days includes times, events, and locations, as well as any notes.

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Important Information</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>
31. Monday Schedule

<table>
<thead>
<tr>
<th>Monday Morning</th>
<th>Monday Afternoon</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>who</strong></td>
<td></td>
</tr>
<tr>
<td><strong>what</strong></td>
<td></td>
</tr>
<tr>
<td><strong>where</strong></td>
<td></td>
</tr>
<tr>
<td>Mrs. Jones</td>
<td></td>
</tr>
<tr>
<td>maths</td>
<td></td>
</tr>
<tr>
<td>class</td>
<td></td>
</tr>
<tr>
<td>Mrs. Gravel</td>
<td></td>
</tr>
<tr>
<td>reading</td>
<td></td>
</tr>
<tr>
<td>class</td>
<td></td>
</tr>
<tr>
<td>Mr. Bradshaw</td>
<td></td>
</tr>
<tr>
<td>science</td>
<td></td>
</tr>
<tr>
<td>class</td>
<td></td>
</tr>
<tr>
<td>Mrs. Nesbit</td>
<td></td>
</tr>
<tr>
<td>gym</td>
<td></td>
</tr>
<tr>
<td>YMCA</td>
<td></td>
</tr>
<tr>
<td>Mr. Martin</td>
<td></td>
</tr>
<tr>
<td>recess</td>
<td></td>
</tr>
<tr>
<td>outside</td>
<td></td>
</tr>
</tbody>
</table>

Algonquin Child and Family Services, North East Region
32. Classroom/Environment

CLASSROOM/ENVIRONMENT

Research has shown that there are links between the behaviour of a student with PDD and the environment within which the behaviour is exhibited. Inappropriate behaviour can be reduced or eliminated by making changes and/or adjustments to the environment. When setting up your classroom, do not forget that each student with PDD is different, and take into consideration their strengths and needs before making changes.

Classroom/environment adaptations:

- Be aware of any sensory stimuli within the areas and the possible effects on the student.
- Designate areas for individual/group learning.
- Designate a “break area” for the student to go to when he/she feels anxiety building up.
- Create clear boundaries (e.g., use bookshelves, filing cabinets, carpets, tape on the floor).
- Arrange the desks in the classroom so the student can easily navigate:
  - Make a clear path to the door, teacher, and all needed items that the student can access.
  - Have the student sit in front of or facing the teacher and schedules, but away from high-traffic areas, windows, and doors to reduce distractions.
  - Avoid having the student sit in the middle of a group that may cause conflicts and/or feelings of personal space invasion.
  - Place desks in groups to encourage social interactions.
- Provide a clear and predictable schedule.
- Use a colour-coding system (e.g., math is green).
- Provide choices for the student.
- Alternate more difficult and demanding tasks with easier and more enjoyable ones, and adapt tasks and materials to prevent student frustration.

School-wide considerations:

- Think about the classroom location in relation to potential distractions or sensory stimulations (e.g., cafeteria, gymnasium, washrooms).
- Prepare the student in advance for changes in routines (e.g., assembly, fire alarms, concerts).
- Define all other locations by clearly labelling them (e.g., library, gymnasium).
- Allow some flexibility in the schedule to reduce the student’s anxiety (e.g., walk through the hallway between classes before the other students, go early to the locker room to get ready to go home).
- Take into consideration the safety of the student in the hallways and outside on the playground.

Child Care Resources, Northern Region
10 Ways to Create Structure in Your Classroom

Students with ASD often function best in classrooms that offer a great deal of structure, both in terms of the physical layout of the room and expectations of the teacher or the assignment.

1. Use furniture, area rugs, or even electrical tape on the floor to separate the room into distinct areas.
2. Each area should have its own function (e.g., computer area, individual work area, play area).
3. Use signs to clearly indicate the function of each area.
4. Clearly label any ambiguous areas, materials, etc.
5. Label where all the student’s belongings should be stored or where shared materials can be found.
6. Post a schedule of the day to give students advanced knowledge of what the day will bring.
7. Use this schedule to demonstrate any changes to the routine throughout the day.
8. Create a homework checklist to be filled out every day, complete with materials needed.
9. Colour code binders, notebooks, and required materials for each subject.
10. Use visual aids to support verbal instruction.

Here you can see an example of a structured classroom. The layout of the room has been physically defined using area rugs, furniture, and electrical tape. Through this definition, students are able to easily identify the functions and expectations of any given area. This clarity is especially important for students with ASD.

Depending on the needs of your students, areas can be more clearly defined by posting visual or text signs. These signs could include such information as when these areas are to be accessed (during free time, group work, etc.), what materials need to stay in the area, and applicable rules.
34. Selecting Student Organizers

**Considerations for Selecting Student Organizers**

1. What is the purpose of this tool?
2. How will the tool be used?
3. What is the skill level of the student?
4. Is the tool age-appropriate?
5. What type of visuals will support the student (pictures, words, or both)?
6. Is the size of the tool appropriate?
7. Is the tool simple, clear, and concrete?
8. Can the student participate in developing this tool?
9. How will I evaluate whether the tool is working?
How to Prompt

Children with PDD can become very prompt dependent. When prompting, it is important to consider the level of prompting required and quickly try to fade prompting. Generally, it is best to prompt from least to most. In addition, verbal prompting is the hardest to fade, so it is best to consider using other prompting techniques. The following prompts are hierarchical from least to most intrusive:

**Least – try these first:**
- **Gesture**
  - Adult motions the child to respond
  - Adult points to the task to be initiated (e.g., points to visual schedule)
- **Partial physical prompt**
  - Adult provides touch cue such as touching arm, shoulder, elbow to partially assist the initiation (e.g., give elbow a nudge to prompt student to reach for visual schedule)
- **Full physical prompt**
  - Adult physically assists the child
  - Full hand-over-hand prompt

**Most – try last:**
- **Verbal**
  - Adult gives verbal direction (e.g., “Check your schedule.”)
### PROMPT TRACKING SHEET

**INSTRUCTIONS:** Staff is to track the number and type of prompts required for the student to complete a task during a specific period of the school day.

**TARGET STUDENT:** ________________________________

**SUBJECT/PERIOD:** ________________________________

<table>
<thead>
<tr>
<th>TASK/TRANSITION</th>
<th>VERBAL PROMPT</th>
<th>PHYSICAL PROMPT F/P (FULL OR PARTIAL)</th>
<th>GESTURE</th>
<th>INDEPENDENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>e.g., silent reading (unfamiliar book)</td>
<td>/</td>
<td>F F P</td>
<td>/</td>
<td></td>
</tr>
<tr>
<td>e.g., computer (preferred activity)</td>
<td></td>
<td></td>
<td>//</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL**

Additional Information:
## 37. Prompts Used in Initiating Play

### Initiating Play Statement

**TASK: Initiating Play with a Peer**

- **Preparation:** two toy trains, train track

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Verbal prompt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Hand-over-hand prompt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Physical prompt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Independently</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Walks up to peer who is playing with toy train on track.

Gets peer’s attention.

Asks, “Can I play with you?”

Hears response, “Okay.”

Picks up another toy train (not being used by peer).

Places train on same track.

Plays with train in shared space.

---

**TASK:**

- **Preparation:**

<table>
<thead>
<tr>
<th></th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Verbal prompt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Hand-over-hand prompt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Physical prompt</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Independently</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

Grand Erie District School Board
38. Following Directions

Listen for the signal.

Stop what you are doing.

Listen to the teacher’s directions.

Do it!

Number of times I did it:
39. Interest Inventory

Interest Inventory

Name: ____________________________________________

School: ________________________________

Grade: ____________    Age: ____________

Favourite food/snack: ____________________________

Sports you play: ____________________________

Sports you like to watch: ____________________________

Favourite subjects at school: ____________________________

Who do you hang around with? ____________________________

Games you like to play: ____________________________

Music: ____________________________

TV shows that you like to watch: ____________________________

Computer/Internet: ____________________________
### Parent/Guardian Reinforcement Inventory

Student’s name: ____________________________________________

Date completed: ____________________________________________

Completed by: _____________________________________________

Please check (✓) on a scale from 1 to 10.

<table>
<thead>
<tr>
<th>Least preferred</th>
<th>Somewhat</th>
<th>Most preferred</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

List what your child is willing to work for.

<table>
<thead>
<tr>
<th>Toys and Trinkets</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sports/Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Food</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Social</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Recreation/Entertainment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Community</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Domestic</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other reinforcers</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
</tr>
<tr>
<td>2.</td>
</tr>
<tr>
<td>3.</td>
</tr>
</tbody>
</table>

See the following page for examples.
Toys and Trinkets
Balloons, cars, dolls, windup toys, spinning tops, drums, horns, book, pacifier, mirror, fan, plastic bottle filled with coloured water and sparkles, string of beads, squishy balls, elastic putty, silk scarf, computer, stickers, blocks, modelling dough, interlocking building blocks, and so on

Sports/Physical
Flips, twirls, spins (on chairs), tickles, hugs, high-fives, low-fives, pat on the back, jump on a trampoline, piggy back rides, water table, sand table, crawl on the floor, basketball, soccer, skipping, running, and so on

Food
Small candies (jelly beans, etc.), pop, juice, ice cream, frozen treats, cookies, cupcakes, pizza, fruit, veggies, chips, pretzels, popcorn, cereal, french fries, crackers, and so on

Social
Enthusiastic verbal praise, smiles, thumbs-up, applause, wink, sing a song, nod, blow a kiss, raise your arms and shout “Hooray”, giggle hysterically, be surprised, helping others (teacher, parent, friend), and so on

Recreation/Entertainment
Watch a video, play a board game, play cards, matching, hide-and-seek, puzzles, colouring, musical chairs, freeze dance, blow bubbles, listen to music, ride a bike, and so on

Community
Go to a movie, go to a restaurant, go shopping, go swimming, visit friends and/or family, go to the park, go for a walk, and so on

Domestic
Baking, cooking, sweeping, wiping tables, washing windows, washing dishes, and so on
41. Reinforcement Inventory for Elementary Student

ELEMENTARY STUDENT REINFORCEMENT INVENTORY

Name: _________________________________________

School: ________________________________________

Grade: ______________ Age: ______________

1. What are your favourite foods?
   a) _________________________________________
   b) _________________________________________
   c) _________________________________________

2. What do you like to do at recess?
   a) _________________________________________
   b) _________________________________________
   c) _________________________________________

3. What do you like to do at home?
   a) _________________________________________
   b) _________________________________________
   c) _________________________________________

(continued)
4. What are your favourite games?
   a)_________________________________________
   b)_________________________________________
   c)_________________________________________

5. What sports do you like to play? ______________________

6. What sports do you like to watch?_______________________

7. What are your favourite subjects at school?
   a)____________________________________________
   b)____________________________________________
   c)____________________________________________

8. Who do you like to play with?
   a) ____________________________________________________________________
   b) ____________________________________________________________________
42. Giving Praise Effectively

INCREASING DESIRABLE BEHAVIOUR IN CHILDREN WITH ASD
POSITIVE BEHAVIOURAL STRATEGIES

Giving Praise Effectively

<table>
<thead>
<tr>
<th>Sitting at circle</th>
<th>“Wow! You sat quietly during circle!”</th>
</tr>
</thead>
<tbody>
<tr>
<td>I’m ready to work</td>
<td>“Great! You are ready to do your work!”</td>
</tr>
<tr>
<td>Colour</td>
<td>“Beautiful colouring!”</td>
</tr>
<tr>
<td>Toys</td>
<td>“Work finished! You can choose a toy.”</td>
</tr>
</tbody>
</table>

Praise the completion of each task on a schedule.
Use descriptive words and focus on the specific task.
Follow up by rewarding with preferred activity.

Durham District School Board
## 43. Reinforcer Chart

**INCREASING DESIRABLE BEHAVIOUR IN CHILDREN WITH ASD**

**POSITIVE BEHAVIOURAL STRATEGIES**

**I Am Working For**

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Place picture of reinforcer here

(Represents the number of tokens/stickers to be earned before receiving reward)

---

Durham District School Board
44. Ten Recommendations

TEN RECOMMENDATIONS FOR WORKING WITH AN AUTISTIC CHILD

Working with an autistic child requires special qualities and skills.

1. **Be motivated.**

   In order to work with an autistic child, you must be highly motivated. In the words of Théo Peeters, *you have to be bitten by the autism bug.*

2. **Gather information.**

   Motivation alone isn’t enough. You will need specific training that is both theoretical and practical. Theoretical training will provide an understanding of the fundamental problems related to autism. Practical training will teach you how to implement strategies for working effectively with an autistic child.

   Publications, articles, and research findings are an ongoing source of information. Reading works by writers with autism, notably Temple Grandin, Georges Huard, and Gunilla Gerland, will provide insight into the daily lives of people with autism.

3. **Gain a new perspective on children with autism.**

   Forget the myths about autism. Every child is different. It’s not because he or she does not WANT to; it’s because he or she CAN’T.

4. **Think like an autistic child.**

   As much as you can, think like an autistic child. Question yourself, be flexible, and allow yourself to adapt to the autistic child, without forcing him or her to see the world through your eyes.

5. **Adapt the school environment.**

   The school environment must be adapted to the autistic child so that it provides consistent reference points that make him or her feel safe and increase his or her ability to function autonomously. An autistic child needs an environment that has been adapted to make it easier for him or her to learn and, to the extent possible, make generalizations and open up to the outside world.
6. **Perform appropriate assessments.**

In order to create an effective educational program, you must understand the strengths, weaknesses, and interests of the autistic child. In order to do this, you will need evaluation tools that have been adapted for autism, such as the psycho-educational profile. You must use the findings to create a relevant individualized education plan (IEP).

7. **Adapt learning to the individual.**

Autistic children learn differently. They behave differently. They have different interests. To implement individualized strategies, you must start with the child.

8. **Use your imagination.**

You must use a lot of imagination in order to meet the needs of an autistic child. You will also need to construct, create, and improvise, using your imagination and a lot of manual dexterity in order to communicate with the child.

9. **Cooperate with the school team.**

You will need to cooperate very closely with the school staff and the parents. Without them, nothing can be accomplished. You will need to listen to the parents; they are a very important source of information about the child. Cooperation will encourage the sharing of information about difficulties and successes. The well-being of the autistic child and his or her family must always be a central concern.

10. **Grow as the autistic child grows.**

You must evolve as the autistic child evolves. While remaining vigilant and flexible, you will be constantly learning. Do not settle into a comfortable routine; keep your work with the autistic child dynamic, warm, and lively.
45. Visual Lotto Game

**SKILL:** Lotto - Match: (Word) to (Picture + Word)

**INSTRUCTIONS:** Print this page. Laminate using card stock paper. Place Velcro at the top of each box. Use as the main Lotto page.
SKILL: Lotto - Match (Word) to (Picture + Word)
INSTRUCTIONS: Print this page. Cut boxes of individual items and laminate each item using card stock paper. Place Velcro on the back of each box. Student then plays Lotto by matching the individual item onto the main Lotto page.
46. Visual Sentence Strip

**Book T: Sentence Strip Templates**

I like __ (T Pictures+Words)

<table>
<thead>
<tr>
<th>I</th>
<th>like</th>
<th>teddy bears</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I</th>
<th>like</th>
<th>teeth</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4.png" alt="Image" /></td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>I</th>
<th>like</th>
<th>telephones</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
<td><img src="image9.png" alt="Image" /></td>
</tr>
</tbody>
</table>

**VOCABULARY:** Vocabulary Template for Filling in the Blanks

**INSTRUCTIONS:** Print this page as many times as required. Use as template for cutting and pasting. OR Cut boxes of items and laminate each item using card stock paper. Place Velcro on the back of each item and use to complete matching tasks.

Toronto Catholic District School Board
47. Behavioural Assessments

What to record on the data sheet:

1. A description of the behaviour in observable and measurable terms.
2. The time and date of the incident and the initials of the person recording the behaviour.
3. A description of the onset and ending of the behaviour/occurrence.
4. The setting and surrounding event(s) immediately prior to the occurrence.
5. The details of the response implemented by the caregiver (also known as “the consequence”).

Types of Data

- **Frequency (Exact count)**  
  Example: frequency of out-of-seat behaviour, number of spitting incidents, number of times the student talked out of turn

- **Duration (Length of time)**  
  Example: duration of social interactions; time spent on daily living skills such as mopping, sweeping floors, and setting tables; time spent engaging in inappropriate behaviours such as thumb or finger sucking and behaviours associated with a temper tantrum; amount of time the student was out of his or her seat; time spent completing bathroom routine

Additional Tips

1. When there is a day free of the behaviour, this should be indicated on the data sheet so that other data collectors are aware that data was not missed.
2. When the frequency of the behaviour is high, the data collector can have a second person record the behaviour, choose a time interval to collect data, and choose different time periods throughout the week to collect data. This is considered to be a “time sample” of behaviour.
3. When the frequency of the behaviour is moderate, choose a time interval to collect data, and choose different time periods throughout the week to represent your interval.
4. Remember that the data sheet should be purposeful, relevant, and simple.
### Behaviour Tracking Sheet

<table>
<thead>
<tr>
<th>Name: __________________________</th>
<th>Date: __________________________</th>
</tr>
</thead>
</table>

### Operational Definitions:

- **Saying “hi”**: student independently approaches someone face-to-face and says “hi”.
- **Approaching someone**: student approaches someone to try to begin a social interaction.
- **Starting a conversation**: student approaches another person and either asks a question or makes a comment.
- **Waiting for a verbal response**: student independently waits for another person to respond verbally to what he has said before leaving.
- **Saying “bye”**: student independently turns to face someone and says “bye” before leaving a social interaction.
- **Self-monitoring of swearing**: student says the initial to middle sounds of a swear word and then stops himself.

### Appropriate Behaviours

<table>
<thead>
<tr>
<th></th>
<th>Period 5</th>
<th>Period 6</th>
<th>Period 7</th>
<th>Home Room</th>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12:00-12:10</td>
<td>12:10-12:20</td>
<td>12:20-12:30</td>
<td>1:40-1:50</td>
<td>2:00-2:10</td>
</tr>
<tr>
<td><strong>Saying “hi”</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Approaching someone</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Starting a conversation</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Waiting for a verbal response</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Saying “bye”</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Self-monitoring of swearing</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Inappropriate Behaviours

|                          |          |          |          |           |        |        |        |        |        |        |        |
|--------------------------|----------|----------|----------|-----------|--------|
| **Interrupting**         |          |          |          |           |        |        |        |        |        |        |        |
| **Talking out loudly**    |          |          |          |           |        |        |        |        |        |        |        |
| **Swearing**             |          |          |          |           |        |        |        |        |        |        |        |
| **Making noises**        |          |          |          |           |        |        |        |        |        |        |        |
| **Putting hands in pants** |         |          |          |           |        |        |        |        |        |        |        |
| **Chinning**             |          |          |          |           |        |        |        |        |        |        |        |

### Totals

- **Interrupting**: student begins to speak at the same time someone else is talking.
- **Talking out loud/loudly**: student suddenly begins speaking out loudly when all is quiet (no one else is talking).
- **Swearing**: student uses vulgar language spontaneously.
- **Making noises**: student suddenly makes unintelligible noises on his own.
- **Putting hands in pants**: student suddenly puts his hands down the back of his pants and keeps them there for more than five seconds.
- **Chinning**: student hits his chin with the palm of his hand more than once.

*√ Check if behaviour observed during time interval*

York Region District School Board
49. Behaviour Frequency Checklist

<table>
<thead>
<tr>
<th>Time Period</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 8:10 – 8:20</td>
<td>Entry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. 8:20 – 8:32</td>
<td>Homeroom</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. 8:32 – 9:20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. 9:20 – 10:08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. 10:08 – 10:56</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. 10:56 – 11:44</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7. 11:44 – 12:09</td>
<td>Lunch</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8. 12:09 – 12:37</td>
<td>Recess</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9. 12:37 – 12:44</td>
<td>Re-Entry</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10. 12:44 – 1:32</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11. 1:32 – 2:20</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12. 2:20 – 2:35</td>
<td>Departure</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:

Peel District School Board
## 50. ABC Chart

<table>
<thead>
<tr>
<th>DATE</th>
<th>TIME/LOCATION</th>
<th>What came just before the problem behaviour? ANTECEDENT</th>
<th>Give a full description of the problem BEHAVIOUR</th>
<th>Describe the exact responses to the problem behaviour CONSEQUENCE</th>
</tr>
</thead>
</table>

ASD RESOURCE TEAM
FUNCTIONAL BEHAVIOURAL ASSESSMENT: A/B/C CHART

Peel District School Board
## ABC Analysis

Date _____/_____/____ Name of the Person Observed: __________________________________________
Observer: __________________________________________
Behaviours: __________________________________________

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Antecedent</th>
<th>Behaviour</th>
<th>Consequence</th>
<th>Possible Function</th>
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</table>

York Region District School Board
52. Functions of Behaviour

<table>
<thead>
<tr>
<th>Function</th>
<th>Prevention</th>
<th>Alternative Behaviour (to be taught if appropriate)</th>
<th>Consequence</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Attention Seeking</strong></td>
<td>- Identify high-probability times&lt;br&gt;- Begin encounters with high rates of attention&lt;br&gt;- Change seating arrangement to reduce peer attention&lt;br&gt;- Outline classroom expectations AND reinforce with social attending&lt;br&gt;- Identify shortest duration student goes without attention-seeking behaviour, then:&lt;br&gt;  - schedule positive attention for desired behaviour&lt;br&gt;  - systematically fade over time</td>
<td>- To say “Look at me” or “Watch what I can do”&lt;br&gt;- How to tell a joke&lt;br&gt;- How to raise hand for teacher’s attention</td>
<td><strong>Redirection:</strong>&lt;br&gt;  - Provide an instruction with guided assistance to ensure correct response, reinforce response with attention, and return to schedule&lt;br&gt;  - Do not provide any feedback about behaviour</td>
</tr>
<tr>
<td><strong>Escape</strong></td>
<td>For the student, provide info for:&lt;br&gt;  - What he or she needs to do&lt;br&gt;  - How much needs to be done&lt;br&gt;  - What will follow the task, etc.</td>
<td>To request:&lt;br&gt;  - An alternative assignment&lt;br&gt;  - To do assignment after school&lt;br&gt;  - Assistance&lt;br&gt;  - Break</td>
<td><strong>Redirection:</strong>&lt;br&gt;  - Identify contingencies upon returning to assigned area (what work, how much, and what is to follow)&lt;br&gt;  - Amend assignment to promote success&lt;br&gt;  - Allow temporary escape and reassign once a reinforcer has been identified</td>
</tr>
<tr>
<td><strong>Attaining Desired Item</strong></td>
<td>For activities, tasks, etc.,:&lt;br&gt;  - Use reinforcement&lt;br&gt;  - Schedule preferred activities between less preferred ones&lt;br&gt;  - Use a visual schedule&lt;br&gt;  - Provide choice&lt;br&gt;  - Shorten duration or decrease size</td>
<td>- Reinforce desired behaviour by providing access to desired item&lt;br&gt;  - Identify whether absence of desired item will reduce attempts to gain access&lt;br&gt;  - Outline when desired item will be available&lt;br&gt;  - Provide unlimited access to desired item when satiation is needed&lt;br&gt;  - Remember to identify an appropriate replacement item</td>
<td><strong>Redirection:</strong>&lt;br&gt;  - Provide instruction for task, then reinforce with desired item&lt;br&gt;  - Do not provide access to item after undesirable behaviour occurs&lt;br&gt;  - Do not engage in physical battle over item&lt;br&gt;  - Instead, regain control of item at first opportunity without physically taking it from student</td>
</tr>
<tr>
<td><strong>Meeting Sensory Needs</strong></td>
<td>- Be aware of the student’s health issues&lt;br&gt;  - Build access to desired activities into daily schedule&lt;br&gt;  - Adjust expectations and schedule according to activity level&lt;br&gt;  - Assess with OT&lt;br&gt;  - Reinforce activities that provide desired sensory wants/needs</td>
<td>- To make general requests&lt;br&gt;  - To name sensory toys&lt;br&gt;  - To name body parts and feelings (e.g., “I feel sick” card)&lt;br&gt;  - To request a break&lt;br&gt;  - Relaxation or energizing activity</td>
<td><strong>Redirection:</strong>&lt;br&gt;  - Provide an instruction with guided assistance to ensure correct response, reinforce response with attention, and return to schedule&lt;br&gt;  - Outline when access to preferred activity will be available</td>
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</table>

**Note:** This is to assist with developing a behaviour plan that is individualized to a student’s needs and based on the results of some form of a functional assessment.
53. Positive Behavioural Intervention Plan

**ASD – POSITIVE BEHAVIOURAL INTERVENTION PLAN**

Name of Student: 
Sex: 
Date of Birth: 
ASD Resource Team Members:
School-Based Team Members:

**Functional Behaviour Assessment/Evaluation Section:**

<table>
<thead>
<tr>
<th>Behaviour(s) in need of change:</th>
<th>Perceived functions of behaviour(s):</th>
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<td>1.</td>
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<th>Target replacement behaviours:</th>
<th>Hypothesis statement(s):</th>
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**Strategies to prevent the problem behaviour(s):**

1. Strategy 1 and rationale
   a) 
   b) 
   c) 

2. Strategy 2 and rationale
   a) 
   b) 
   c) 

3. Strategy 3 and rationale
   a) 
   b) 
   c)
## Strategies to deal with the problem behaviour(s)

1. **Strategy 1 and rationale**
   - a)  
   - b)  
   - c)  

2. **Strategy 2 and rationale**
   - a)  
   - b)  
   - c)  

3. **Strategy 3 and rationale**
   - a)  
   - b)  
   - c)  

**Next review date:**
54. Communication Observation Form

Communication Observation Form – Requests

<table>
<thead>
<tr>
<th>REQUEST</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
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<th>L</th>
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<td>interaction (games, social routines)</td>
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Observations about feelings/emotions:

General observations:
## Checklist for Higher-Level Communication Skills

<table>
<thead>
<tr>
<th></th>
<th>Never</th>
<th>Sometimes</th>
<th>Often</th>
<th>Always</th>
<th>Not Observed</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Establishes joint attention</td>
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<td>2</td>
<td>Initiates and responds to greetings</td>
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<td>3</td>
<td>Responds to questions within an appropriate response time</td>
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<td>4</td>
<td>Follows three-step directions without prompts</td>
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<td>5</td>
<td>Understands forms of language (WH– questions, pronouns, word order, possessives, etc.)</td>
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<td>6</td>
<td>Understands classroom routines and adjusts to changes in routines/activities appropriately</td>
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<td>7</td>
<td>Understands non-verbal cues (facial cues, body language, and voice tone changes)</td>
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<td>8</td>
<td>Incorporates non-verbal cues appropriately when communicating</td>
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<td>9</td>
<td>Uses adequate verbal language (with questions, pronouns, word order, possessives, etc.)</td>
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<td>10</td>
<td>Requests clarification/repetition as needed</td>
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<td>11</td>
<td>Responds to the speaker’s request for clarification as needed</td>
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<td>12</td>
<td>Understands language used in his/her peer group (jargon, slang)</td>
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<td>13</td>
<td>Uses peer group language</td>
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<td>14</td>
<td>Interrupts appropriately</td>
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<td>15</td>
<td>Gets attention appropriately</td>
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<td>16</td>
<td>Understands jokes/humour</td>
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<td>17</td>
<td>Uses jokes/humour appropriately</td>
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<td>18</td>
<td>Requests permission as needed</td>
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<td>19</td>
<td>Accepts advice/help/reminders appropriately</td>
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<td>20</td>
<td>Requests actions from others appropriately (e.g., asks others to be quiet or stop pushing)</td>
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<td>21</td>
<td>Reacts appropriately when told to change own actions (e.g., be quiet, stop shifting the desk, move)</td>
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*(continued)*
|   |   |
|---|---|---|---|---|
|   | Never | Sometimes | Often | Always | Not Observed |
|22 | Responds to expressions of affection |   |   |   |   |
|23 | Offers expressions of affection |   |   |   |   |
|24 | Understands social situations and responds appropriately |   |   |   |   |
|25 | Understands apologies appropriately |   |   |   |   |
|26 | Uses apologies appropriately |   |   |   |   |
|27 | Initiates and ends conversations appropriately |   |   |   |   |
|28 | Maintains appropriate body distance/position when conversing |   |   |   |   |
|29 | Maintains topics using appropriate verbal/non-verbal skills (uses “Oh”, “Mm”; nods) |   |   |   |   |
|30 | Takes turns and changes language style appropriately during conversation |   |   |   |   |
|31 | Uses appropriate topics during conversations |   |   |   |   |
|32 | Tries to repair verbal messages when aware of errors |   |   |   |   |
|33 | Presents with a match between verbal and non-verbal message production |   |   |   |   |
|34 | Uses language appropriately to agree/disagree with conversational partners |   |   |   |   |
|35 | Responds to teasing appropriately |   |   |   |   |
|36 | Responds to disappointments appropriately |   |   |   |   |
|37 | Follows and gives directions appropriately |   |   |   |   |
|38 | Follows and gives reasons for actions and choices appropriately |   |   |   |   |
|39 | Communicates verbally with ease and confidence |   |   |   |   |
|40 | Other |   |   |   |   |

Durham District School Board
## Sample Communicative Functions

### Practice Observations Sheet

**Who:**

**Where:**

**When:**

**Additional Information:**

<table>
<thead>
<tr>
<th>Function</th>
<th>Example and Tally</th>
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<tbody>
<tr>
<td>Greeting</td>
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<tr>
<td>Requesting</td>
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<tr>
<td>Commenting</td>
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<tr>
<td>Refusing</td>
<td></td>
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<tr>
<td>Labelling</td>
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<tr>
<td>Asking questions</td>
<td></td>
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<tr>
<td>Answering questions</td>
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<tr>
<td>Joking</td>
<td></td>
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<td>Negotiating</td>
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<td>Other</td>
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</table>
57. Answering the Telephone

Answering the Telephone

When I am at home, sometimes the phone rings. I can answer it.

I pick up the receiver and say, “Hello”.

The person calling will say, “Hello, can I speak to …”

The person will ask to speak to my Mom or Dad.

I answer, “I will get them”. I put the receiver on the desk beside the phone and go to get Mom or Dad.

I tell Mom or Dad that someone wants to talk to them on the phone.
## Increasing Opportunities for Social Interaction

<table>
<thead>
<tr>
<th>Time</th>
<th>Routine</th>
<th>Opportunities for Social Interaction</th>
<th>Types of Activities</th>
<th>Who Will Arrange</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:45–9:00</td>
<td>Arrival</td>
<td>Free time at carpet for those ready early</td>
<td>Johnny will bring in a cool toy from home each week to share with others.</td>
<td>Teacher to arrange with family</td>
</tr>
<tr>
<td>9:00–9:15</td>
<td>Morning exercises, “O Canada”, …</td>
<td>Turn to your right/left, tell your partner one thing you did last night</td>
<td>Johnny is coached at home about the one thing he will talk about, using a picture to remind him.</td>
<td>Johnny’s family and classroom staff will develop an inventory of 15 different pictures, and his family will assist Johnny with selecting which one he will do each day and something new he can say.</td>
</tr>
<tr>
<td>9:15–9:45</td>
<td>Math</td>
<td>Those who finish early can play a quick game at carpet</td>
<td>Sorting games or games that require matching (e.g., number bingo)</td>
<td>EA will facilitate game to entice others to join.</td>
</tr>
<tr>
<td>9:45–10:15</td>
<td>Independent studies</td>
<td>Have a small-group activity for those finished or who are well ahead</td>
<td>Cut and paste, requiring group to decide how to put together</td>
<td>Teacher and EA will alternate facilitating the group.</td>
</tr>
<tr>
<td>10:15–10:30</td>
<td>Spelling</td>
<td>Working in pairs</td>
<td>Pairs practise spelling</td>
<td>Johnny is able to pick who his partner will be on alternate days.</td>
</tr>
<tr>
<td>10:30–11:00</td>
<td>Science</td>
<td>Small-group experiments</td>
<td>Pictures will be used to allow Johnny to participate in group activity.</td>
<td>Johnny’s family will have the experiment sent home so that Johnny can experience and practise answering the questions.</td>
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</tbody>
</table>
Increasing Opportunities for Social Interaction

<table>
<thead>
<tr>
<th>Time</th>
<th>Routine</th>
<th>Opportunities for Social Interaction</th>
<th>Types of Activities</th>
<th>Who Will Arrange</th>
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</table>
59. Joining a Conversation

JOINING A CONVERSATION

When I want to join a conversation that people are already having,

I should briefly stand nearby to listen to what they are talking about.

Then I should join in the conversation when I have something to say about what it is they are talking about and there is a break in the conversation.

When joining the conversation, I should:
1. remember NOT to interrupt the person who is already talking; and

2. talk about what everyone else is talking about, NOT what I want to talk about when it is not related to the conversation.

Topic = school dance
Topic ≠ dinosaurs

Surrey Place Centre, Toronto Region
60. Activities to Promote Turn Taking

**Turn Taking**

Turn taking is an important skill for children to learn. It is the beginning of social interaction between the child and another person. Children learn about taking turns in play. Later, children understand taking turns when they speak with others.

Choose games in which the child has to wait for a turn before taking one. You can start by having a really fast turn and then letting him have his turn for longer. Be sure to label with gestures and pointing to let him know whose turn it is, for example, “Your turn” (point to him) and "My turn" (point to yourself). These activities can be tried at home and at school. Remember, having only one item necessitates sharing and taking turns!

<table>
<thead>
<tr>
<th>Activity</th>
<th>Making It Interactive</th>
<th>Use Words to Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ball</td>
<td>Play catch, roll/bounce back and forth, throw ball into a box or pail</td>
<td>ball, throw, bounce, catch</td>
</tr>
<tr>
<td>Music (use one drumstick, musical toy)</td>
<td>Take turns hitting the drum, shaking the bell, pushing buttons to activate music</td>
<td>bang, music, drum</td>
</tr>
<tr>
<td>Stacking rings</td>
<td>Take turns stacking and removing rings</td>
<td>ring, on, off</td>
</tr>
<tr>
<td>Blocks</td>
<td>Build one tower together; take blocks off one at a time</td>
<td>on, block, off, down</td>
</tr>
<tr>
<td>Shape sorter</td>
<td>Take turns putting one shape in/taking one shape out</td>
<td>in, out, shape</td>
</tr>
<tr>
<td>Craft activities</td>
<td>Use one crayon, one paintbrush, one marker Take turns colouring, painting, etc.</td>
<td>on, colour, paint</td>
</tr>
<tr>
<td>Doll and accessories</td>
<td>Take turns with one doll, one brush, one spoon, one bottle, etc.</td>
<td>brush, eat, hug, dolly, eat, drink, bottle, milk</td>
</tr>
<tr>
<td>Cars/trucks</td>
<td>Take turns driving one car down a ramp, along a road</td>
<td>car, drive, on, down</td>
</tr>
<tr>
<td>Sand play</td>
<td>Take turns using toys in the sand: one shovel, one strainer, one pail, one scoop</td>
<td>in, sand, shovel, pail, pour</td>
</tr>
</tbody>
</table>

Halton Catholic District School Board
### 61. Prompts Used in Turn Taking

**Turn Taking**

Initially, adult to child. Adult selects activity that student enjoys. Activity: Modelling dough

<table>
<thead>
<tr>
<th>Step</th>
<th>Hand over hand</th>
<th>Verbal/Physical prompts</th>
<th>Physical Prompts</th>
<th>Independently</th>
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</table>

**REPEAT PROCESS 3 OR 4 TIMES**

10.  Picks up bin
11.  Places it on desk
12.  Helps teacher place items in bin
13.  Returns bin to shelf

---

Halton Catholic District School Board
# 62. Play Checklist

<table>
<thead>
<tr>
<th>Name:</th>
<th>Date:</th>
</tr>
</thead>
</table>

In what type of play activity does your student engage?
- □ Plays alone
- □ Observes peers playing
- □ Imitates peer play
- □ Parallel play
- □ Adult-directed peer play
- □ Plays with another student
- □ Plays with a group of students
- □ Seeks out play partner
- □ Interacts only with primary caregiver

How does your student play/use toys?
- □ To explore
- □ For self-stimulation
- □ For sensory stimulation
- □ To experience cause and effect
- □ Plays with the same toy all the time
- □ Indicates interest in simple toys
- □ Uses simple toys incorrectly
- □ Uses simple toys correctly

Describe your student’s social communication skills during play.
- □ Initiates play
- □ Shares materials with direction
- □ Shares materials independently
- □ Resists intrusion
- □ Tolerates intrusion

Describe your student’s social turn-taking skills.
- □ Takes turns with direction
- □ Take turns independently

How does your student focus during play?
- □ Demonstrates the capacity for joint attention
- □ Shifts from one toy to the next frequently
- □ Requires constant adult support
- □ Requires occasional adult support
- □ Is disruptive
- □ Operates independently

---

Durham District School Board
63. Fitness Friends Program

**Fitness Friends**

The Fitness Friends program was developed cooperatively by the Durham Catholic District School Board, the Durham District School Board, EMT – Energize, Motivate, Train, and Variety Village. This free program is designed to encourage students of all abilities to get involved in sports and be active.

Schools enter as many teams as they wish, with each team consisting of one student with a disability, one peer, and a staff member. Teams participate in as many sport and recreational activities as possible within a specified time period (e.g., 10–12 weeks). Teams record and submit the type and duration of activities to earn Fitness Friends points.

A monthly Fitness Friends newsletter is distributed to highlight success stories submitted by teams, fitness tips, nutrition facts, and other active-living ideas. Achievements of all of the participants are celebrated with a region-wide Fitness Friends Festival at the end of the program.

**Objectives**

The Fitness Friends program aims to promote an active lifestyle, especially for students with a disability, and increase opportunities for students to participate in sports and recreation activities outside the school curriculum and physical education classes.

The program encourages students of all abilities to:
- Participate in inclusive sport and recreation activities
- Embrace ability, diversity, inclusion, and physical fitness
- Focus on friendship, everyone’s ability, and personal achievement

The program further provides:
- Resources for adapted equipment and adapted programs to support physical activity, health, and nutrition
- Recognition for participation and a venue for celebrating everyone’s achievements

**Activity Examples**

<table>
<thead>
<tr>
<th>Walk/Jog/Wheel</th>
<th>Floor Hockey/Sledge</th>
<th>Tai Chi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Simon Says</td>
<td>Hockey</td>
<td>Stretching</td>
</tr>
<tr>
<td>Relay</td>
<td>Obstacle Course</td>
<td>Target Games</td>
</tr>
<tr>
<td>Baseball</td>
<td>Hiking</td>
<td>Swimming</td>
</tr>
</tbody>
</table>

**Activity Recording Example**

<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Duration of Activity</th>
<th>Points to Date</th>
<th>Staff Initial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 8</td>
<td>Walk/wheel</td>
<td>20 minutes</td>
<td>20</td>
<td>CH</td>
</tr>
<tr>
<td>Feb. 10</td>
<td>Relay</td>
<td>30 minutes</td>
<td>50</td>
<td>CH</td>
</tr>
<tr>
<td>Feb. 13</td>
<td>Target games</td>
<td>15 minutes</td>
<td>65</td>
<td>CH</td>
</tr>
</tbody>
</table>

Durham Catholic District School Board
Dear parents or guardians,

My name is (team member). I work in the special education department of Education Services on the team providing specialized interventions for children with an Autism Spectrum Disorder. This year, the special education department wants to set up a pilot project for integrated games groups. The project will run at (name of school) public elementary school.

Your child has been selected to take part as a “novice player” in the integrated games groups program. This program is intended to develop communication and social skills through game playing. The objective of this program is to encourage children to learn to play in a functional manner while having fun with the other children in their group. The novice player also has a model, called the “expert player”, so that he or she can imitate the skills required to interact with another person.

I would like to invite your child to take part in the games groups with three children from his or her class. This play group will be held twice a week for 30 to 40 minutes a session.

If you agree to have your child take part in the integrated games groups, please sign below. If you have any questions or if you would like further information about the games groups, you can contact me at ___________________ , or you can contact the principal at ________.

Thank you for your cooperation,

(team member)

Parents’ signature ______________________________

Integrated Games Groups

Participant Sheet

Student’s name:

Date:

Theme:

Objective(s):

<table>
<thead>
<tr>
<th>Objective(s):</th>
<th>Observation(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-</td>
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<td>2-</td>
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<tr>
<td>3-</td>
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</tbody>
</table>
65. Social Scenario

Social Scenario

A social scenario helps an autistic student to learn the underlying rules of social exchanges or interactions and to choose the behaviour that is desirable in a social situation.

In a social scenario, the adult describes to the child in detail the way he or she should behave, explaining what is expected in the particular situation, and telling the student that if he/she behaves in this way, the adult will be proud of the child and the adults around him/her will be pleased.

The adult can read the story to the student or the student can read it him/herself. It is suggested that the story be read at least twice a day for at least three weeks. For example, if the student is having problems in the schoolyard, the teacher will read the story to the child before he/she goes out for recess and then read it again after recess.

We believe that it is very important to personalize the story so that it is related to each student’s emotional experiences, because each child is unique.

A social scenario helps a student reduce his/her level of anxiety because he/she knows what is expected in the environment when faced with a particular social situation.

Everybody Makes Mistakes

Students are tested in the classroom. There are tests for mathematics, French, English, science, and so on.

A test tells a student whether or not he or she has clearly understood what the teacher has shown him/her.

If he/she has clearly understood, the student may do very well on the test.

Sometimes, if he/she has not understood as well, the student may make mistakes in his/her test. It is normal to make mistakes. All students make mistakes. When we are learning, we make mistakes. The teacher will help the student to understand clearly.
I sometimes do very well on a test. But sometimes I make mistakes in my test. It is normal for me to make mistakes. I make mistakes because I am learning. This is not serious; the teacher will help me to understand clearly and to correct my mistakes.

I am proud that I can correct my mistakes when I have a test.

The adult is pleased that I correct my mistakes when I have a test.
### My Morning Routine

<table>
<thead>
<tr>
<th>Step</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>I come to school on the school bus.</td>
<td><img src="image" alt="Bus" /></td>
</tr>
<tr>
<td>I play in the school yard with my friends.</td>
<td><img src="image" alt="Children Playing" /></td>
</tr>
<tr>
<td>I go to my locker. I hang up my coat, I change my shoes, and I get my agenda.</td>
<td><img src="image" alt="Lockers" /></td>
</tr>
<tr>
<td>I show my toy to my teacher. I tell her why I brought it to school.</td>
<td><img src="image" alt="Child Showing Toy" /></td>
</tr>
<tr>
<td>I put my toy in the box. I can play with it at recess time.</td>
<td><img src="image" alt="Box" /></td>
</tr>
<tr>
<td>I am ready to work.</td>
<td><img src="image" alt="Child Studying" /></td>
</tr>
</tbody>
</table>
67. Steps to Reading Body Language

Steps to ...

Reading Body Language

1. Look for clues:
   a) the face
   b) gestures
   c) what the body does

2. Recognize the clue.

3. Understand the clue.

4. Respond to the clue.
**68. Body and Facial Expressions**

_Directions_: Cut each row out and place in a jar or envelope. Ask a student to take a paper from the jar and act out the body and facial gestures; have the other students guess what the student is feeling.

<table>
<thead>
<tr>
<th>Body and Facial Gestures</th>
<th>Feeling</th>
</tr>
</thead>
<tbody>
<tr>
<td>You have a bad stomachache. Hold your stomach, bend over, and look like you are in pain.</td>
<td>In pain</td>
</tr>
<tr>
<td>You have lost your book report. Look worried.</td>
<td>Worried</td>
</tr>
<tr>
<td>You hear a loud noise behind you. Turn around and look afraid.</td>
<td>Afraid</td>
</tr>
<tr>
<td>Your team won. Jump up and down. Clap your hands and look excited.</td>
<td>Excited</td>
</tr>
<tr>
<td>Your homework is too hard. Look frustrated.</td>
<td>Frustrated</td>
</tr>
<tr>
<td>Your parents brought you a present when they returned from a trip. Look surprised.</td>
<td>Surprised</td>
</tr>
<tr>
<td>The movie is boring. Turn away and look bored.</td>
<td>Bored</td>
</tr>
<tr>
<td>Your team lost the race. Hang your head down and look sad.</td>
<td>Sad</td>
</tr>
<tr>
<td>Your teacher has given you two spelling lists. You don’t know which one to study. Look confused.</td>
<td>Confused</td>
</tr>
<tr>
<td>You won a prize. Stand up straight and look happy.</td>
<td>Happy</td>
</tr>
<tr>
<td>You tore your favourite sweatshirt. Look upset.</td>
<td>Upset</td>
</tr>
</tbody>
</table>

Kinark Child and Family Services, Central East Region
69. Different Kinds of Touch

There Are Different Kinds of Touch

When I am with other people that I know, there are some kinds of touch that are okay and some that are not okay.

When I am with my family, it is okay to hug them.

When I am with my friends, it is okay to do high-fives.

When I am with teachers, it is okay to shake hands.

It is never okay to touch other people on their private areas.

It is not okay to hug or kiss other students or teachers at school.
## 70. Public/Private Places

<table>
<thead>
<tr>
<th>Public</th>
<th>Private</th>
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</thead>
<tbody>
<tr>
<td>Define what public means</td>
<td>Define what private means</td>
</tr>
<tr>
<td>A public place is:</td>
<td>A private place is:</td>
</tr>
<tr>
<td>List all the public places you can think of:</td>
<td>List private places:</td>
</tr>
<tr>
<td></td>
<td>Bedroom at home</td>
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<tr>
<td></td>
<td>Bathroom at home</td>
</tr>
<tr>
<td>List all the things you can do in public:</td>
<td>List all the things you can do in private:</td>
</tr>
</tbody>
</table>
71. Tips for Job Coaches

Tips for Coaching Students with an ASD to Be Successful in the Workforce

When coaching students with an Autism Spectrum Disorder (ASD) to find employment and be successful in the workplace, the main goal of the job coach is to teach the employee to work independently and to no longer require support in order to achieve success. To make this happen, the job coach must ensure that the person with an ASD understands the requirements of the position, and educate the employer and co-workers about the strengths and needs of the individual with an ASD. Once these goals have been reached, a good job coach will then phase him/herself out through the creation of natural supports so the employee learns to advocate for him/herself and is able to work independently.

Coach the Employee

The job coach paves the way for success by helping the employee to understand the expectations of the role and by ensuring that he/she understands what the responsibility will be. The job coach also helps to break each job responsibility down into manageable “chunks” so that the employee is able to work through each step in a systematic manner. The job coach also helps to ensure success by facilitating communication between the employer and the employee, ensuring that the employer addresses the employee in an effective manner.

Support and Educate the Employer

It is the role of the job coach to prepare the employer and co-workers for working with an individual with an ASD. It is important that the employer understand the special requirements of the person with an ASD, specifically how to communicate effectively. The employer should also be provided with tips such as these:

- Instructions should be direct and broken down into manageable steps that can be completed systematically. Students with an ASD often struggle with multitasking, so job expectations should reflect their need for a step-by-step sequence.

- Students with an ASD work best when their routine is consistent. For example, they may need to work at the same workstation and have breaks at the same time.

- If required to make decisions or problem-solve, the person with an ASD may require examples of the type of answer expected.

Phase Out Support

Too much support and too little support can both result in frustration on the part of the employer and the employee. To ensure success once the job coach moves off-site, she needs to create natural supports to take on the role. For example, identify two or three co-workers who can serve as mentors. The job coach should do this, as students with an ASD often struggle to build relationships. Employees must also realize that they cannot rely too heavily on this mentor. The job coach should also teach the protocol of the office who to ask questions of, who to call when ill, etc.
72. Stress Thermometer

Stress Thermometer

<table>
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<tr>
<th>Stress Signals</th>
<th>Relaxation Techniques</th>
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Feeling Good

McMaster Children’s Hospital, Hamilton/Niagara Region
73. Relaxation Steps

Relaxation Steps

1. Move to the quiet place.
2. Sit on a chair, beanbag, or on the floor.
3. Think about a place that is relaxing for you.
4. Breathe slowly and steadily.
5. Tense shoulders up, relax shoulders down.
6. Tense hands, relax hands.
7. Tense toes, relax toes.
8. Breathe slowly and steadily.

Finished!

Children’s Hospital of Eastern Ontario, Eastern Region
74. Study Tips for Teens

Tips for When the Teacher Talks

- Listen carefully during class.

- If you feel you are getting distracted, you can ask for a study carrel, ask for a different seat, ...

- Ask the teacher if you can use a tape recorder.

- Listen for some cues like "This is important", "This will probably be on the test", "The main point is ...".

Tips for Taking Notes

- Write headings or titles for each new topic. You will know when it is a new topic because the teacher might say, "We are going to be doing [insert new topic here] now".

- Use bullet points for ideas that relate to one topic. For example:

  - North Pole:
    - No land
    - Slabs of ice
    - Very cold
    - Six months of daylight and six months of darkness

- Leave some empty space. Leave line spaces between points.

- Ask a classmate to lend you his or her notes.

Tips for Organization

- Try to keep all your pens, pencils, and other school supplies in a pencil case; the best kind is one that can fit into your three-ring binder.

- Get one binder for each subject. Each binder should be a different colour, for example, red for history, blue for science, ...
Divide your binders into different sections: "assignments", "class notes", "old work", "to hand in".

Label each pocket of your two-pocket file folder. One side can be called "Work to do", and the other side can be called "Work finished". You should have one two-pocket folder per binder. Try to match the folder to the binder.

As the year goes on, your binders will get quite full. When this happens, remove the "old work" sections from your binders and put them in file folders that match your binder. These folders can be kept at home in a master box. This organization helps to keep all the subjects together.

Some Key Materials:
- Pens (red, black, blue ...).
- Pencils.
- Erasers.
- Three-ring binders (different colours).
- Dividers.
- Two-pocket file folders. Try to find ones that fit into your binder. If not, make holes so that they do. Try to get ones that are in the same colour group.
- Notebooks – Try to find colours that match your binders.
- Stickies.
- Highlighters.
- Index cards.
- Three-hole punch – one that can fit into a binder.
- Master file box (for at home).
- Agenda book.
Appendix A: Glossary

Accommodations
Special teaching and assessment strategies, human supports, and/or individualized equipment required to enable a student to learn and demonstrate learning. Accommodations do not alter the provincial curriculum expectations for the grade.

Alternative expectations
Learning expectations that are developed to help students acquire knowledge and skills that are not represented in the Ontario curriculum.

Assistive technology
Any technology that allows one to increase, maintain, or improve the functional capabilities of an individual with special learning needs (Edyburn, 2000).

Augmentative and Alternative Communication (AAC)
Communication that makes use of services and devices, such as visual symbols, signs, or voice output devices, to supplement (augment) or replace (serve as an alternative to) a student’s current method of communication.

Autism Spectrum Disorders (ASD)
A subset of the Pervasive Developmental Disorders (PDDs) that includes Autistic Disorder, PDD NOS, and Asperger’s Disorder. These disorders have three areas of concern:
- Qualitative impairments in social skills
- Qualitative impairments in verbal and non-verbal communication
- Restricted and repetitive interests or behaviours.

Collaboration
Planning, implementing, shared decision-making, and working together to provide services (Minister’s Autism Spectrum Disorders Reference Group, 2007).

Comorbid disorders
Two or more disorders diagnosed simultaneously in an individual.

Echolalia
Repetition of words or phrases used by others.

Functional behaviour assessment (FBA)
A systematic process that is designed to look beyond the student’s behaviour and focus on identifying its function or purpose.

Functional analysis
A systematic process to develop or confirm a hypothesis about the function of behaviour.

Modified expectations
Learning expectations that differ in some way from the regular grade expectations as outlined in the Ministry of Education’s curriculum policy documents.

Splinter skills
Highly developed skills in a very specific area of ability.

Transition planning
A coordinated set of activities that prepare students for change (Ministers’ Autism Spectrum Disorders Reference Group, 2007).
Appendix B: Resources

Websites for Information and Resources on ASD

ABA Resources www.abaresources.com

Ability OnLine www.ablelink.org

Alberta Teachers’ Association – Behaviour, Observation, Assessment and Teaching Strategies (BOATS) www.specialeducation.ab.ca/

A Rhyme a Week: Nursery Rhymes for Early Literacy http://curry.edschool.virginia.edu/go/wil/rimes_and_rhymes.htm

ASD: Canadian-American Research Consortium www.autismresearch.ca

Asperger Society Ontario www.aspergers.ca

Autism Ontario www.autismontario.com

Autism Research Institute www.autism.com/ari

Autism Society Canada www.autismsocietycanada.ca/

Autisme Montréal www.autisme-montreal.com

AutismToday www.autismtoday.com

Canadian Autism Intervention Research Network (CAIRN) www.cairn-site.com

ConnectAbility www.connectability.ca

Do2Learn www.do2learn.org

Geneva Centre for Autism www.autism.net/index.php

Indiana Resource Center for Autism (IRCA) www.iidc.indiana.edu/~irca/welcome2.html

International Rett Syndrome Association www.rettsyndrome.org

Ministry of Children and Youth Services www.children.gov.on.ca


Online Asperger Syndrome Information and Support (O.A.S.I.S.) www.udel.edu/bkirby/asperger/

Sensory Resources www.sensoryresources.com

Société québécoise de l’autisme www.autisme.qc.ca

Special Needs Opportunity Window http://snow.utoronto.ca/


The Gray Center for Social Learning & Understanding www.thegraycenter.org

Children’s Books on ASD


Haddon, Mark (2004). *The Curious Incident of the Dog in the Night-Time*. Anchor Canada. Fifteen-year-old Christopher has a condition similar to autism and does not like to be touched, meet new people, or make small talk. When his neighbour’s dog is killed, Christopher begins an investigation that disrupts his perfectly ordered life.


Lears, Laurie (1997). *Ian’s Walk: A Story About Autism*. Albert Whitman & Company. A story about a girl who realizes how much her little brother, who has autism, means to her as she searches for him when he is lost.

Messner, Abby Ward (1996). *Captain Tommy*. Potential Unlimited Publishing. A story about a young boy who at first reluctantly agrees to play with and then makes friends with a boy who has PDD.


Thompson, Mary (1996). *Andy and His Yellow Frisbee*. Woodbine House. The new girl at school tries to befriend Andy, an autistic boy who spends every recess by himself spinning a yellow Frisbee under the watchful eye of his older sister.


Appendix C: References


Bauer, S. Asperger Syndrome, Online Asperger Syndrome Information and Support, www.udel.edu/bkirby/asperger/as_thru_years.html.


Geneva Centre for Autism www.autism.net/index.php


