MANAGING BEHAVIOR BY MANAGING THE CLASSROOM:

MAKING LEARNING ACCESSIBLE FOR DEAF AND HARD OF HEARING STUDENTS WITH autism spectrum disorders

By Christen A. Szymanski

The prevalence of Autism Spectrum Disorders (ASD)—a group of developmental disabilities that cause severe problems with socialization, behavior, and communication—continues to grow. In 2008, the year that Odyssey focused on autism, the estimated prevalence of ASD for hearing children was 1 in 150 (CDC, 2007), while today estimates suggest rates as high as 1 in 91 (Kogan et al., 2009). This increase has also been observed in children who are deaf or hard of hearing (Szymanski, Brice, Lam, & Hotto, 2012), with numbers growing from 1 in 81 (GRI, 2008) to 1 in 59 (GRI, 2010). However, in contrast to the surge in research, resources, and information available for hearing children with ASD, information to help parents, educators, and professionals working with children who are deaf or hard of hearing and have ASD continues to be scarce and often nonexistent.

While ASD is considered the same as autism under the Individuals with Disabilities Education Act, it can actually be any of the following: autism, Asperger’s syndrome, or Pervasive Developmental Disorder Not Otherwise Specified. ASD is considered a developmental disability that impacts a child and his or her family throughout their lives. Like children with autism, children with ASD struggle in their ability to socialize and interact with others, express themselves or communicate effectively, and regulate behaviors or emotional reactions. Despite common characteristics across the autism spectrum, no two children or adults with autism or ASD are alike.

Currently, there is no cure for ASD. However, with the right interventions children and adults do exhibit gains and can make marked improvements. The controversy about the cause of ASD continues and is still being debated. What is certain is that vaccines do not cause autism (DeStefano, 2007); instead research continues to implicate genetics.

Challenging Behaviors Lead to Challenges in Learning

At times, children with ASD display challenging behaviors. Challenging behaviors can include temper tantrums, screaming, refusing to participate in activities, and, occasionally, aggression towards others or a tendency towards self-injury. When these behaviors begin, it is crucial that schools immediately respond by conducting a Functional Behavioral Assessment (FBA). An FBA by a trained professional allows for an understanding of what may be causal in the child’s

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behavior as well as ideas on how to eliminate that cause before behaviors escalate.

The following strategies and interventions have been effective in designing a classroom environment that allows children with ASD to be successful. Many of these strategies correlate with a reduction of challenging and problem behaviors.

**Minimizing Complex Language**

Children with ASD face significant struggles with understanding and using language to communicate (Hurdy et al., 2010). This challenge is likely further exacerbated when the child is deaf or hard of hearing because like other deaf or hard of hearing children, children with hearing loss who have ASD may have limited exposure to language due to age of diagnosis of hearing loss, access to use and understanding of spoken or signed language, and consistency of language use between home and school (Szymanski & Brice, 2008; Szymanski, Brice, Lam, & Hotto, 2012).

Language in the classroom is a way for teachers and staff to communicate activities, excitement, changes in routines, upcoming events, expectations, and consequences. Children with ASD often cannot access this information (Moreno & O’Neal, 1997) because they struggle both to pick up on those cues and to know when they have missed them. To minimize the effect of deficits in receptive language, teachers are encouraged to try to convey the most information possible using the fewest words possible. Brief statements (e.g., “Sit here.”) are more effective than lengthy ones (e.g., “I would like you to please sit over here.”). Brief statements reduce the amount of receptive language skills the child with ASD needs to understand. Using a combination of minimal language and pictures, gestures, and other cues may improve the child’s ability to follow and act on instructions and expectations. Here are some tips for keeping language simple:

- Be brief.
- Be concrete.
- Be consistent with word choice and phrases. Use the same sign or gesture often.
- Be direct. Use a gesture to indicate where you want the child to sit or stand. Don’t say, “Find a seat.” Instead, say, “Sit here” and point to the location. Children with ASD often struggle to comprehend language and to understand which seat they should find.
- Use visual support. Combine complex tasks with pictures,
gestures, and body language. When telling a child, “Give me the ball,” add a gesture that shows him or her how to hand it to you, or hold out your hand and wait for the ball.

Making the Classroom Visually Accessible

While research suggests that children with autism and ASD are visual learners (Dunn Buron & Wolfberg, 2008), research also shows that children with ASD are very easily distracted (Happe, Booth, Charlton, & Hughes, 2006). Classrooms that are most efficient for children with ASD are those that combine visual cues, e.g., schedules, class rules, while minimizing visual distracters, e.g., extra word charts, ABC strips, pictures, computers, toys (Smith, 2012; Rogers & Dawson, 2010; Lord & McGee, 2001). When classrooms have too many visuals, children with ASD may become overwhelmed, and they may fixate on these items rather than on instructional materials; they may not be able to focus on important tasks.

Research also shows that children with autism struggle to remember information that is not of interest to them (Williams, 1995). For example, a child with autism may know the Metro train schedule but may not know his or her phone number. This can lead to significant challenges in school with remembering classroom rules, meeting expectations, understanding how to complete tasks, and essentially knowing how to be a student. This information, so basic to classmates, may not be important to a child with ASD. To minimize this deficit, teachers are encouraged to incorporate both spoken and signed expectations as well as visual information whenever possible.

Teachers who post rules and expectations and review them frequently are most likely to succeed (Smith, 2012; Dunn Buron & Wolfberg, 2008; Loring & Hamilton, 2011). Visual reminders or posters that are helpful include those focused on classroom rules, job charts, schedules, and classroom expectations. Having this information visually accessible allows a teacher to refer a child to a visual reminder rather than rely on a child’s weak receptive language skills (Loring & Hamilton, 2011).

Tips for Making the Classroom Accessible

- Conceal toys, materials, and other items of high interest (e.g., blocks, computers, puzzles) to eliminate distractions and potentially challenging behaviors.
- Keep visual reminders and postings available and easy to reference. Combine pictures and words where appropriate. Keep things clear and concise.
- Utilize all communication modalities (e.g., signed language; spoken language; pictures; gestures, including pointing).
- Post rules and expectations. Children cannot argue with a posting on a wall, but they can argue with you.
- Keep classrooms organized, with areas clearly labeled and designated for specific items. Use pictures and words to label important areas. Areas that are off limits (e.g., the teacher’s desk) should be clearly labeled “No students.”
- Use 5-point scales or other similar scales to help visually present expectations for behavior and emotions (Dunn Buron, 2003). Visually presenting expectations eliminates receptive language challenges.

Establishing Routines

Learning how to be a student may be a challenge for students with ASD. Students without ASD incorporate communication from their teacher and peers as well as the subtle cues of the classroom seemingly naturally (Moreno & O’Neal, 1997). Children with ASD often do not have these skills and may exhibit challenging behaviors until they learn how to be students.

This learning often occurs by establishing frequent routines during the school day (Kashinath, Woods, & Goldstein, 2006; Smith, 2012; Marks et al., 2003). When children with ASD have a routine that they know and have mastered, frustrations from trying to understand their environment (e.g., language or cues from the teacher) may be minimized and challenging behaviors
reduced. Research also shows that when routines are learned in one setting they can be generalized to other settings, so learning table manners at school results in using table manners at home (Kashinath, Woods, & Goldstein, 2006). Routines essential in classrooms may include a structured morning arrival, calendar or circle time, lining up, lunch time, recess, group work, and packing up to go home (Marks et al., 2003; Smith 2012). It is important to keep in mind that routines should not turn into rituals, which can often be negative for children with autism (Smith, 2012; Lord & McGee, 2001).

Routines reduce stress and anxiety and enable students to feel as if they are in control (Dunn Buron & Wolfberg, 2008; Kashinath, Woods, & Goldstein, 2006). Without routines throughout the day, students with ASD are likely to face failure and, like others facing failure, get upset—and being upset can result in challenging classroom behaviors.

Tips for Establishing Routines

• Whenever possible, routines should be the same for all children in the classroom.
• Individualize routines, but keep expectations the same.
• Make sure all pertinent adults—including substitute teachers and staff members—are aware of classroom routines.
• Minimize changes. When changes to routines occur, children with autism often display challenging behaviors.
• Begin with establishing small routines (e.g., lining up) and work towards larger routines (e.g., calendar time).
• When possible, establish routines at school that are similar to those at home (e.g., meal times).
• Encourage independence. Avoid over-helping the child complete tasks that are developmentally appropriate. Instead, reward the child when he or she completes tasks.
• Ensure routines are developmentally appropriate and take into account the child’s strengths and weaknesses.

Individualized Schedules

Like routines, schedules allow the child to understand the cues of school that he or she misses; schedules can lead to improved behavior, generalization of skills, and feelings of competence (Smith, 2012; Lord & McGee, 2001; Bryan & Gast, 2000; Mesibov, Browder, & Kirkland, 2002). Schedules should outline the day for the child and include all critical activities (e.g., arriving, snack time, circle time, play time, nap time, group work). Schedules should be individualized for each child and take into account his or her strengths and weaknesses (Bryan & Gast, 2000). Generalizability in understanding schedules may occur best when using pictures that accurately represent an activity or item, but the image should be non-specific. For example, when some children with ASD see pictures of SunChips® or M&M’s® to represent snack time, they may become upset if snack time does not include these items. For these children, more generalized pictures such as those found on image programs (e.g., Boardmaker®) might be appropriate. Research shows that when children are prompted to check their schedule often and are responsible for removing or checking off activities as they complete them, they are more likely to internalize the schedule and become independent in using it as well as master skills (Mesibov, Browder, & Kirkland, 2002; Bryan & Gast, 2000). Additionally, the use of schedules may assist students in learning the conceptual understandings of start and finish, first and then, and next and last. If students cannot manage an all-day schedule, a briefer version, such as one that shows first and then (see www.autismspeaks.org/docs/sciencedocs/atn/visual_supports.pdf), can be used.

Tips for Individualized Schedules

• Do not be overly specific (e.g., do not state “PE with Mr. Jon” because one day Mr. Jon will be absent and Ms. Dani will be the teacher, and this could create confusion and ultimately disruptive behavior).
• Do not force younger children to adhere to schedules with strict time lines (e.g., circle time at 9:30 a.m.) as elementary classrooms often do not adhere to strict time schedules.
• Do not use developmentally inappropriate schedules. Schedules should reflect the children’s abilities. An evolution from picture schedules, to words and pictures, to words only, and ultimately to use of an agenda book would be a logical progression for children.
• Do not allow children to rearrange their schedules (e.g., put a preferred activity before a less favored activity) without permission.
• Do keep schedules in the same location and be sure to update them daily.
• Do prompt children to check their schedules often during the day.
• Do allow portability for schedules when necessary by placing them on a clipboard or using Velcro to post them.

**Individualized Instruction**

Decisions about curriculum interventions and design for children with hearing loss and ASD are just emerging. We are faced with a lack of trained professionals and accessible resources, making any model selection a question of the ability to implement the intervention or curriculum successfully as well as the basic question of whether the intervention is appropriate. Until we have those trained professionals, we are left in a constant cycle of wondering if what we are doing is correct.

Research, however, is clear that when children with ASD are educated in classrooms that rely heavily on group work or on their ability to internalize the cues of the classroom, they do not progress academically and may exhibit challenging behavior. Currently, the only evidence-based practice for children with ASD is Applied Behavioral Analysis, the strategy of combining structured learning with structured rewards, and intensive data collection. Applied Behavioral Analysis has been shown to improve socialization, behavior, academics, language, and communication skills in children with ASD at home and in the classroom.

Many hearing children with ASD, even when educated in classrooms for only those with ASD, may need one-to-one aids to help with curriculum instruction, manage behaviors, and provide the intensive support needed during the day.

While we may not have a large body of research on deaf and hard of hearing children with ASD, we do have several effective interventions and strategies to address classroom behavioral challenges based on research with hearing children with ASD (Smith, 2012, Lord & McGee, 2001; Dunn Buron & Wolfberg, 2008). We have anecdotal evidence that a few deaf children using similar strategies have experienced success as well. When we interpret and use existing knowledge and combine that with our expertise in educating children with hearing loss, we begin to provide the best educational environment for children who are deaf or hard of hearing with ASD.

**Classroom Strategies**

- **Towards the end of all activities,** give five- and one-minute warnings that they will soon be finished, especially if the activity is something the child enjoys (Dunn Buron & Wolfberg, 2008).
- **Keep routines consistent for the child,** minimize changes, and make sure all teachers and staff members are aware of the routine.
- **Consider having a Change Board** (a designated place in the classroom to post upcoming changes to the schedule) in the classroom for older students. This board should be updated by the teacher, and the child should be prompted to look at the changes for the day. If problem behaviors occur, the teacher can clearly state that the changes were on the board.
- **Post schedules and expectations to reduce power struggles.**
- **Provide a space in the classroom that is completely free of all stimuli.** Children with ASD are easily overwhelmed and may need time without any external distractions to calm themselves.
- **Communicate daily with parents.** Tell the parents about their child’s challenges and successes in school. Facilitate the parent communicating events that may impact their child’s school performance (e.g., lack of sleep, change in diet, new medication).
- **Incorporate rewards throughout the day for positive behaviors.** Have options available and allow the child to pick. Monitor access to items that are overly reinforcing and could lead to challenges when removed. Seek feedback from parents about new interests, and make those interests work in the classroom.
- **Keep track of data related to any challenging behaviors whenever possible.** Be explicit when documenting what occurred before the behavior (antecedent), during the behavior (exactly what the child did), and after the behavior (consequence).
- **Use a three-step prompting sequence when making demands.** Tell the child, show the child, and then assist the child in completing a task. Provide rewards when the child independently completes a task.

Left: A reinforcement board allows a child to work towards a bigger goal (e.g., a walk, swing, access to a favorite toy) by requiring mini-goals. Stickers allow a visual representation for the child to know when he or she is getting close to a reward.
References


Resources


A “Must Have” for All Schools