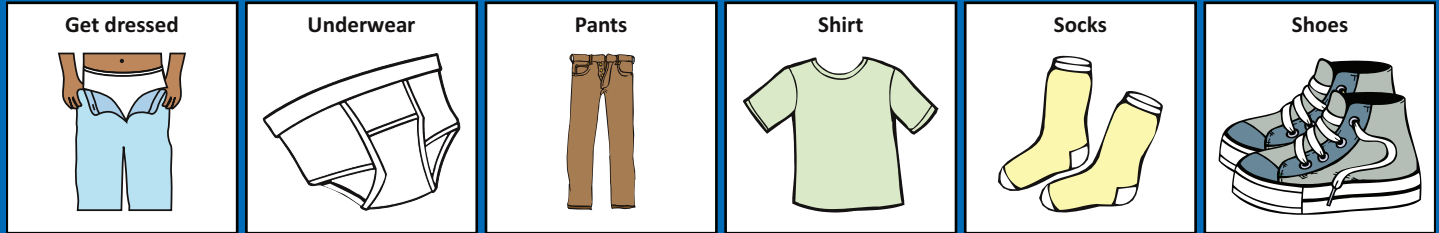


Visual Supports and Autism Spectrum Disorders



Introduction

What are visual supports? A visual support refers to using a picture or other item to communicate with a child who has difficulty understanding or using language. Visual supports can be photographs, drawings, objects, written words, or lists. Research has shown that visual supports work well as a way to communicate.

Visual supports are used with autistic children for two main purposes. They help caregivers communicate better with their child, and they help their child communicate better with others. The focus of this brochure is on helping caregivers communicate better with their child.

This brochure introduces parents, caregivers, and professionals to visual supports and provides instruction on how to use them effectively. Visual supports can be used with persons of any age, although this brochure refers to children. Also, visual supports can be used by caregivers other than parents.

Why are visual supports important? The main features of autism can include differences in interacting socially and/or communicating in social situations, and having focused interests or repetitive behaviors. Visual supports can use the strengths of autistic children to help with areas of need.

First, autistic children may understand social cues differently as they interact with others in daily activities. They may not fully grasp social expectations, like how to start a conversation, how to respond when others make social approaches, or how to change behavior based on unspoken social rules. Visual supports can help teach social skills and help autistic children use them on their own in social situations.

Second, autistic children may find it difficult to understand and follow spoken instructions. They may not be able to express what they want or need as easily as other children. Visuals can help caregivers communicate what they expect. This decreases frustration and may help decrease challenging behaviors that result from difficulty communicating. Visuals can promote positive ways to communicate.

Finally, some autistic children may have difficulty when their routines change or they are in unfamiliar situations. Visuals can help them understand what to expect and will happen next, which might reduce anxiety. Visuals can help them pay attention to important details and cope with change.

First – Then Board

- ❑ **What is it?** A First-Then Board is a visual display of something your child prefers that will happen after completing a task that is less preferred.
- ❑ **When is it helpful?** A First-Then Board is helpful in teaching autistic children to follow directions and learn new skills. It motivates them to do activities that they do not like and clarifies when they can do what they like. A First-Then Board lays the foundation needed to complete multi-step directions and activities and understand the cause and effect or work-reward concept.
- ❑ **How do I teach it and use it?** Decide what task you want your child to complete first (what goes in the “first” box) and the preferred item or activity (what goes in the “then” box) that your child can have immediately after the “first” task is done. This preferred item/activity should be motivating enough to increase the likelihood your child will follow your direction.

Put the visuals on the board (e.g., photos, drawings, written words) that represent the activity you identified. Present the board to the child with a brief, verbal instruction. Try to use the least amount of words possible. For example, before beginning the “first” task, say, “First put on shoes, then swing.” If needed, refer to the board while your child is doing the task. For example, say “One more shoe, then swing” when your child is almost done.

When the “first” task is completed, refer back to the board. For example, say “All done putting on shoes, now swing!” and immediately provide the preferred, reinforcing item or activity.

In order to teach autistic children the value of the First-Then Board, you must give them the reinforcing activity or item after they complete the “first” task. Otherwise, your child may not trust the board the next time you use it.

- ❑ **What if challenging behaviors occur?** If challenging behaviors occur, continue by prompting (or helping) your child to complete the “first” task. Keep your focus on the task rather than the challenging behavior. Then it is important to still provide the reinforcing item or activity, since the focus of the board is on completing the “first” task, and not on addressing challenging behaviors.

If you think challenging behaviors may happen, begin by introducing the First-Then Board for a task that your child usually completes willingly and successfully. If challenging behaviors become more difficult to control, it may be appropriate to consider behavioral consultation with a professional to address these behaviors directly.

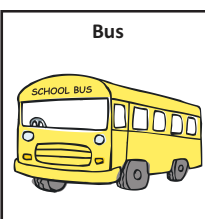
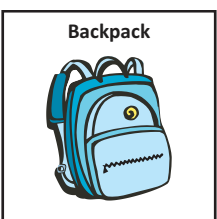
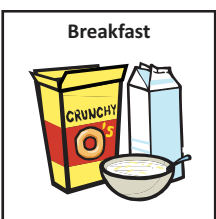
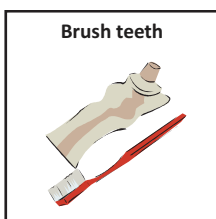
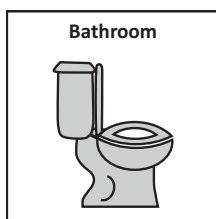
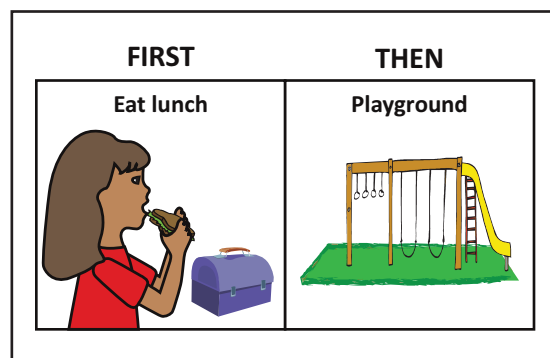
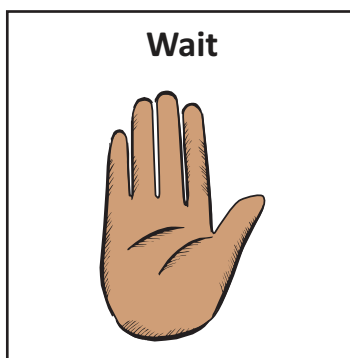
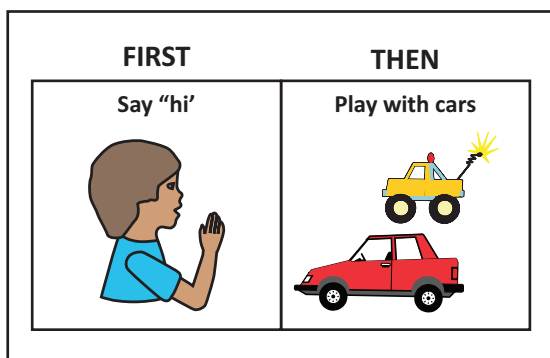
Visual Schedule

- ❑ **What is it?** A visual schedule is a visual representation of what is going to happen throughout the day or within an activity.
- ❑ **When is it helpful?** A visual schedule is helpful for breaking down an activity or part of the day that has multiple steps to ensure the teaching and independence of those steps. It can also be helpful in decreasing anxiety surrounding transitions by communicating when certain activities will occur throughout the day or part of the day.
- ❑ **How do I teach it and use it?** Decide the activities that you will picture on the schedule. Choose activities that really will happen in that particular order. Try to mix in preferred activities with non-preferred ones.

Put on the schedule the visuals (e.g., photos, drawings, written words) that show the activities that you have identified. The schedule can be portable, for example, on a binder or clipboard, or it can be fixed to a permanent place, like a refrigerator or wall. Your child should be able to see the schedule before beginning the first activity on the schedule. It should continue to be visible to your child during the rest of the activities. There should also be some way that it is visually clear to your child when a task will be complete, such as marking it off, turning it over, or pulling it off of the schedule. You can use whichever format is going to make the most sense for your child.

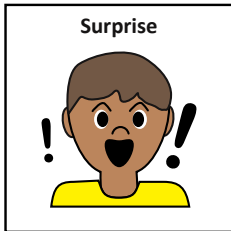
When it is time for an activity on the schedule to occur, cue your child with a brief, verbal instruction. For example, say “Check the schedule.” This helps your child pay attention as the next activity begins. At first, you may need to guide your child to check the schedule (e.g., gently guide from behind by

Samples:



the shoulders and prompt your child to point to the next activity on the schedule). You can gradually decrease prompts as your child begins to use the schedule more independently. When a task is completed, cue your child to check the schedule again, using the procedure described above, and transition to the next activity.

Provide praise and/or other positive reinforcement to your child for following the schedule and for transitioning to and completing activities on the schedule. It may be helpful to use a timer that your child can hear and see to make transition times clear to your child.



Mix variability into the schedule by introducing a symbol that represents an unknown activity (e.g., “oops” or “surprise activity”). Begin to teach this concept by pairing this with a positive activity or surprise. Gradually use this for unexpected changes in the schedule. This will help

teach your child to tolerate changes in the day and promote flexibility.

- ❑ **What if challenging behaviors occur?** If challenging behaviors occur, continue by prompting your child to complete the task that is occurring. Keep your focus on the task rather than on the challenging behavior. Then transition to the next activity as communicated by the schedule and still provide the reinforcing item or activities indicated on the schedule, since the focus of the schedule is on completing the tasks, and not on addressing challenging behaviors.

If you think challenging behaviors may happen, begin by introducing the visual schedule during tasks that your child usually completes willingly and successfully. If challenging behaviors become more difficult to control, it may be appropriate to consider behavioral consultation with a professional to address these behaviors directly.

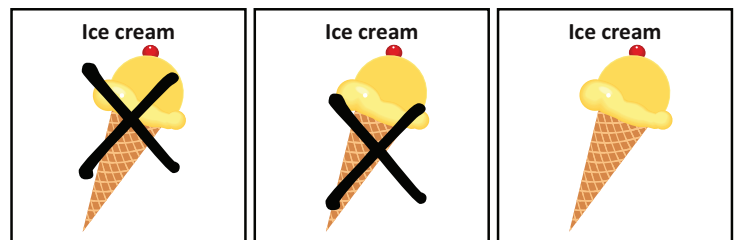
Visually Setting Parameters

- ❑ **What is it?** Setting parameters involves using visuals to set clear boundaries around items or activities and to communicate basic expected behaviors, like waiting.
- ❑ **When is it helpful?** Visually setting parameters is helpful in communicating limits that are part of an activity and may seem unclear to your child. Some examples of situations where this might be useful follow. Communicate physical boundaries of an area or activity, for example, use a “stop” sign to mark where to stop in the backyard. Or show how much of an item or activity is available before it is gone. For example, place a “not available” picture on the computer when it is not time to play on the computer. Or place pictures of 3 juice boxes on the

refrigerator and remove or cover one each time juice is given. Show the need to wait for something that is delayed but will be available soon, for example, by providing a “wait” card paired with a timer.

- ❑ **How do I teach it and use it?** Begin to teach the use of these visuals in situations that have clear, defined, brief parameters. As your child understands these visuals better, gradually increase their use in more long-term activities and with more abstract parameters.
- ❑ **Examples:**
 - Physical boundaries:** Place the visual on physical boundaries that already are defined (e.g., a door) and refer to it when the rule is followed. For example, when your child stops at the door, point to the stop sign and say, “Stop.” Give praise or reinforcement for complying with this parameter. After you have taught the concept, use the same visual during other activities or in other settings where the same boundary is needed but is not as clear, such as a “Stop” sign on the playground.

Limited availability: Decide the number of times or length of time that the item or activity is available. Indicate that through the visual, for example, 3 pictures of a juice box on the refrigerator to indicate that 3 juice boxes are allowed that day. After the item or activity has been used or done, show the change by using the visual, for example, cross out or remove one of the juice box pictures. When the item is no longer available, use the visual to show this. For example, show your child that there are no more pictures of juice on the refrigerator after they have used them all.



Wait: Begin by presenting the symbol for “wait” for a very brief amount of time before your child can have a preferred item or activity. It may help to pair the use of the “wait” symbol with a timer. Have your child trade the “wait” card for the item or activity. For example, when your child asks for a snack, hand your child the “wait” card, set the timer for 10 seconds, and then praise your child’s waiting and trade the snack for the “wait” card.

As your child learns to use visuals for setting parameters, gradually increase the length of time or the number of situations in which your child is expected to wait for items or activities and what they are expected to do while waiting.

❑ **What if challenging behaviors occur?**

If you think that challenging behaviors may occur, introduce these parameters during less difficult situations or begin with simple expectations, like placing a stop sign somewhere where they already follow this rule.

If difficult behaviors occur, be consistent with the parameters you have set. Focus on praising any aspects of the parameters that are being followed, rather than shifting your focus to the challenging behaviors.

Using visual supports can help you and your child communicate and manage everyday activities in positive ways.

Resources for Creating Visual Supports:

- ❑ do2learn.com
- ❑ www.picto4.me/site
- ❑ Eckenrode, L., Fennell, P., & Hearsey, K. (2004). *Tasks Galore for the Real World*. Raleigh, NC: Tasks Galore.
- ❑ The Junior League Family Resource Center provides visual supports packets upon request. See www.childrenshospital.vanderbilt.org/information/family-resource-center.

Resources on Autism Spectrum Disorders:

- ❑ **Treatment and Research Institute for Autism Spectrum Disorders (TRIAD)** is a Vanderbilt Kennedy Center program dedicated to improving assessment and treatment services for children with autism spectrum disorders and their families while advancing knowledge and training. See triad.vumc.org.

Vanderbilt Autism Resource Line

Phone: (615) 322-7565 or (877) 273-8862

Email: autismresources@vumc.org

TRIAD Services for Families

triad.vumc.org/families

TRIAD Services for Educators

triad.vumc.org/schools

TRIAD Online Learning

triad.vkcllearning.org

- ❑ **Tennessee Disability Pathfinder**, a free information and referral service for all types of disabilities, all ages, provides information on autism resources external to Vanderbilt. See TNPathfinder.org or call (800) 640-4636.
- ❑ **Autism Speaks** provides resources and support for autistic individuals and their families. See autismspeaks.org/tool-kit.

- ❑ Local chapters of the **Autism Society of America (ASA)** provide information, support, and advocacy for individuals with ASD and their families. See autism-society.org.

Autism Tennessee

autismtn.org

Autism Resources of the Mid South

autismresourcesmidsouth.org

Autism Society of East Tennessee

asaetc.org

This publication was authored by Whitney Loring, PsyD, Associate Professor of Pediatrics and Psychiatry & Behavioral Sciences, TRIAD Director of Training, and Mary Hamilton, M.Ed., BCBA, TRIAD Educational and Behavioral Consultant. This work was supported through Beth Malow, M.D., M.S., Professor of Neurology, Principal Investigator, Vanderbilt Autism Treatment Network Site, and Zachary Warren, Ph.D., Assistant Professor of Pediatrics, Co-Principal Investigator, Vanderbilt Autism Treatment Network Site. It was edited and designed by the Communications staff of the Vanderbilt Kennedy Center for Excellence in Developmental Disabilities. We are grateful for review and suggestions by many, including by faculty of TRIAD and by Autism Tennessee. This publication may be distributed in its original form at no cost. View more printable resources and materials online at vkc.vumc.org.

These materials are the product of on-going activities of the Autism Speaks Autism Treatment Network, a funded program of Autism Speaks. This publication was made possible, in part, by Grant no. T73MC00050 from the Maternal and Child Health Bureau (MCHB), Health Resources and Services Administration (HRSA), Department of Health and Human Services (HHS). Its contents are solely the responsibility of the authors and do not necessarily represent the official views of the MCHB, HRSA, HHS. Images Jupiterimages Corporation. Reprinted 1/22.

