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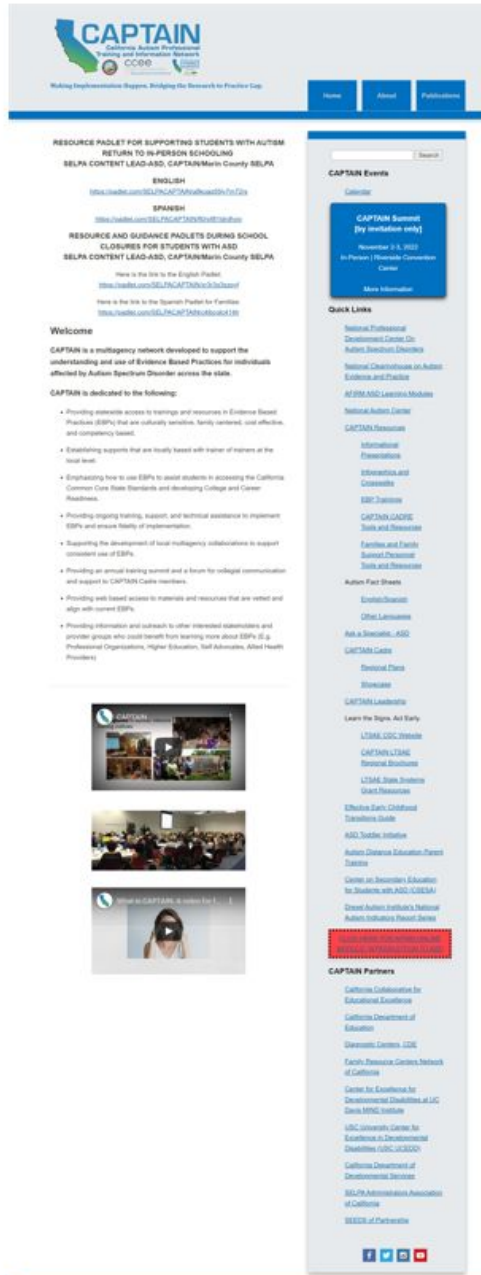
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Links to Publications

Links to Autism Resources

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Pre-Test

Before we get started....



Evidence-Based Practice Training Module:

Visual Supports

Sam, A., & AFIRM Team. (2015). Visual supports. Chapel Hill, NC: National Professional Development Center on Autism Spectrum Disorder, FPG Child Development Center, University of North Carolina. Retrieved from <http://afirm.fpg.unc.edu/visual-supports>



Visual Supports- *defined*

- Any tool presented visually that supports an individual as he or she moves through the day.
- Might include written words, objects within the environment, arrangement of the environment or visual boundaries, schedules, maps, labels, organization systems, timelines, and scripts



Visual Supports- *examples*

- Pictures
- Written words
- Objects
- Arrangement of the environment
- Visual boundaries
- Schedules
- Maps
- Labels
- Organization systems
- Timelines
- Scripts



Visual Supports meet criteria to be considered Evidence-Based for:

- Age Groups: Early childhood to young adult
- Domains: Academic, Behavior, Communication, Social, Play, Adaptive, Motor & MORE!

Outcome Areas		Age Ranges					
		0-2 Toddlers	3-5 Preschoolers	6-11 Elementary School	12-14 Middle School	15-18 High School	19-22 Young Adults
	Communication		✓	✓	✓		
	Social		✓	✓	✓	✓	✓
	Joint attention		✓	✓			
	Play		✓	✓	✓		✓
	Cognitive		✓	✓			
	School readiness		✓	✓	✓		✓
	Academic/ Pre-academic		✓	✓	✓	✓	✓
	Adaptive/ self-help		✓	✓	✓	✓	✓
	Challenging/ Interfering behavior		✓	✓	✓		
	Vocational			✓	✓	✓	✓
	Motor	✓		✓			
	Mental health						
	Self-determination						

Goals that can be addressed using VS

VS can be used to:

- Increase independence
- Support Transitions
- Clearly present expectations
- Increase understanding of a situation, task, or environment
- Provide predictability/structure



When used correctly, VS can:

- Reduce challenging behavior associated with transitions/lack of understanding
- Reduce reliance on caregiver for prompting/reinforcement
- Reduce distractions that interfere with completing a transition or activity

Settings

Used effectively in:

- Home settings
- Classroom settings
- Adult Learning Environments
- Workplace
- Community

EVERYWHERE!



Before Getting Started:

Have you...?

- Identified the target behavior or skill
- Collected baseline data through direct observation
- Established a goal or outcome that clearly states: when the behavior will occur, what the target skill is, and how the team will know when the skills is mastered?

If Not:

- Work with program behaviorist to address the above items -OR-
- Refer to the Afirm Modules to learn how to select the appropriate EBP
<https://afirm.fpg.unc.edu/selecting-ebp>

Three main categories:



Visual Boundaries



Cues



Schedules

Activity: Match Column A to Column B

Column A

1. Increase understanding of where an item belongs
2. Decrease distractions
3. Increase ability to make choices
4. Decrease transition time

Column B

- A. Schedule
- B. Visual boundary
- C. Labels
- D. Choice Boards



Visual/Physical Boundaries and Structure

- Visual/Physical Boundaries and Structure are a specific type of visual support that uses **furniture arrangement, labeling, and color coding** to make the use of a particular space more obvious





Who Needs Physical/Visual Structure?

- Is there a safety concern?
- Does the individual have difficulty staying in one place?
- Does the individual know what s/he is to be working on in an area?
- Does the individual ever leave a location because of frustration?
- Does the individual ever have difficulty with entering others' work space and or making use of others' work or personal items?

If yes to any of these, consider using Physical/Visual Structure ...



Boundaries

Type	Example	What is it?	Skills/Behaviors Addressed
Room Arrangement		Arranging the environment in a systematic way	<ul style="list-style-type: none"> • Increase on task behavior
Visual Boundaries		Includes covering materials unnecessary for perform the skill, Marking the ground/area, etc.	<ul style="list-style-type: none"> • Increase on task behavior

Room Arrangement



Visual Boundary



<https://youtu.be/KaOEqJGig9c?t=43>

Prepare Visual Boundaries

Creating or redefining boundaries can:

- Provide a person with additional information about where a particular area in the house/program begins or ends
- Clarify what activities occur in a specific area or setting, or
- Provide more information about where a person should be during a specific activity/time of day.

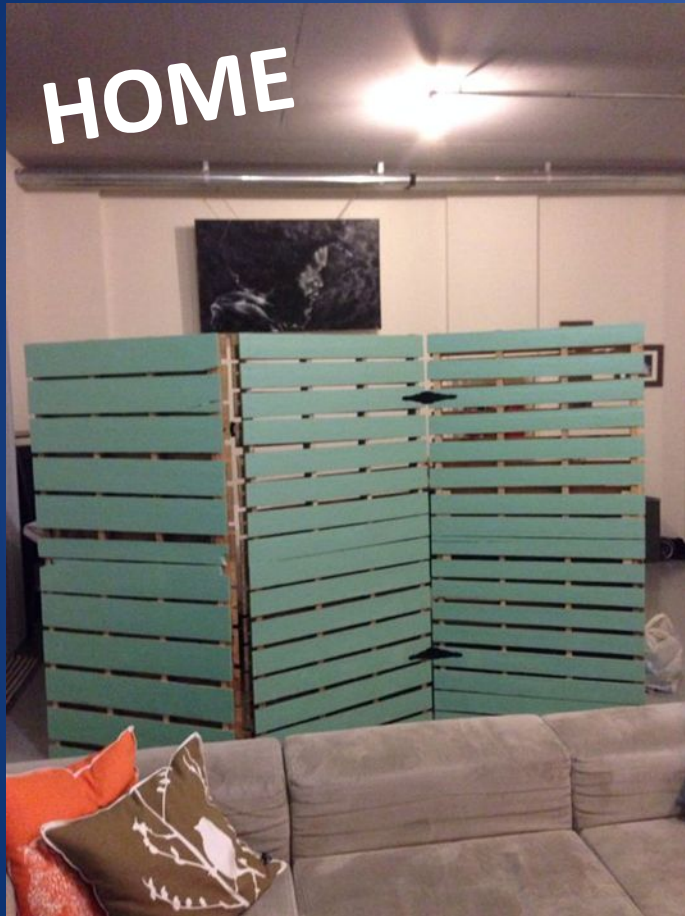
Creating Visual Boundaries

- Try to use natural boundaries, objects, and furniture to clearly designate the boundary area.
- If furniture is unavailable to define an area, consider using tape on the floor or wall.
- Sections of carpet or rugs the size of the defined area are also helpful.
- Labels can also define a specific space. For example, you can create a label for a reading area or snack area.

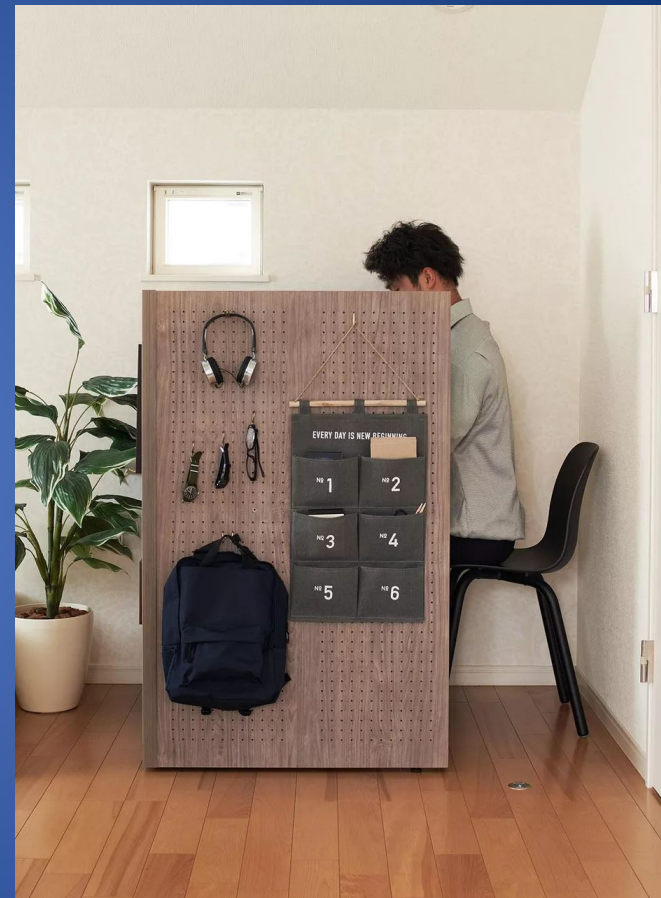


<https://www.youtube.com/watch?v=IDxOOKKpDVU>

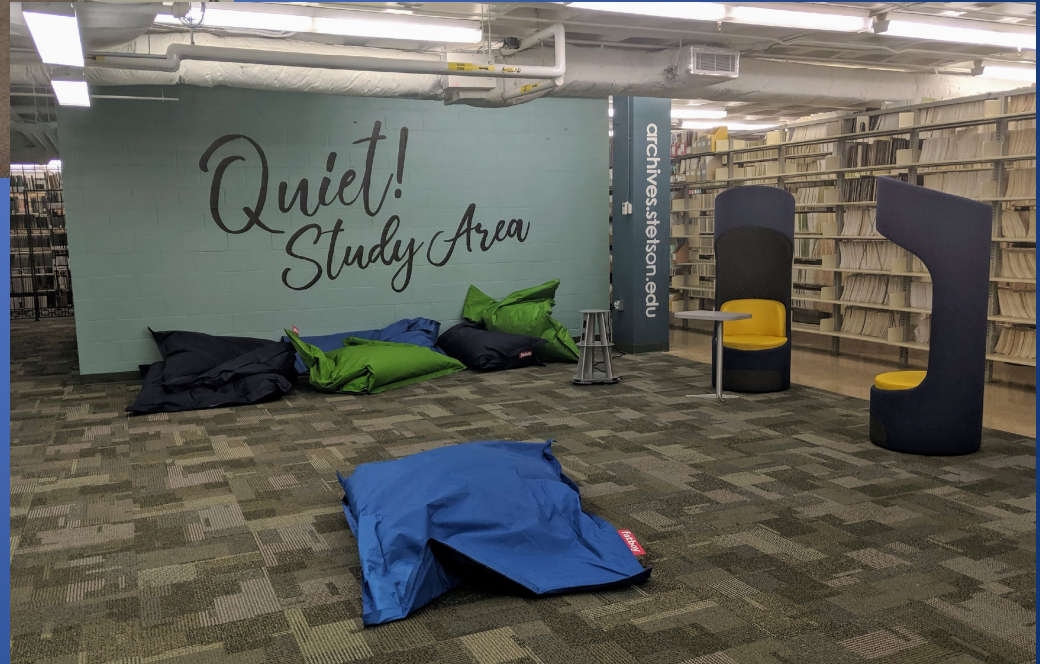
Partitions Can Be Used to Reduce Distraction/ Create a Visual Boundary



Independent Work Area



Group Work Areas



Teaching Visual Boundaries

First, introduce the person to the established boundary.



Do this even if the person is not new to the setting.



Walk together into the boundary area. Show the important boundaries and tasks completed in that area.

Next, use modeling to teach the person to stay within the boundary.



Video Modeling may be helpful with this.



Use reinforcement when a person stays within a boundary. "Michael, good job eating at the table!"



When the person does not stay within the boundary, provide a calm and specific correction. "Michael, we only eat at the table."

Note about Visual Boundaries

- Teaching people to recognize boundaries will take time to incorporate into their routine. Don't give up!
- Visual boundaries need to be consistently used in order to be meaningful.



Visual Cues

- Visual cues provide a pictorial representation of what expected in a given environment or situation in order to promote specific responses, behaviors, or understanding.
- The three primary types of visual cues include **visual instructions, choice boards** and **labels**.




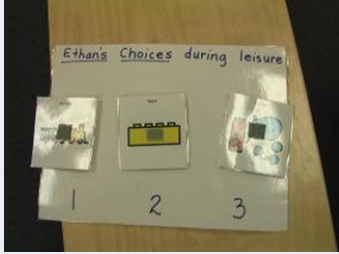

Who Needs Visual Cues?

- Does the activity, event, or concept cause anxiety or frustration for the individual?
- Is a great deal of support required for the individual to be successful with the activity, event, or concept?
- Is the activity, event, or concept difficult for the individual to understand when only verbal information is provided?

If yes to any of these questions, it is likely that the individual would benefit from a visual cue



Visual Cues

Type	Example	What is it?	Skills/Behaviors Addressed
Visual Instruction		Visual way to organize an activity	<ul style="list-style-type: none"> Increase success of task completion
Choice Boards	 <p>Image credit: NPDC</p>	Visual representation of choices that person can select	<ul style="list-style-type: none"> Increase independence
Labels		Visual representation to show where an item belongs	<ul style="list-style-type: none"> Increase understanding of expectations

Visual Step By Step Instructions



1. Card In



2. Enter PIN



3. Fast Cash



4. Take Money

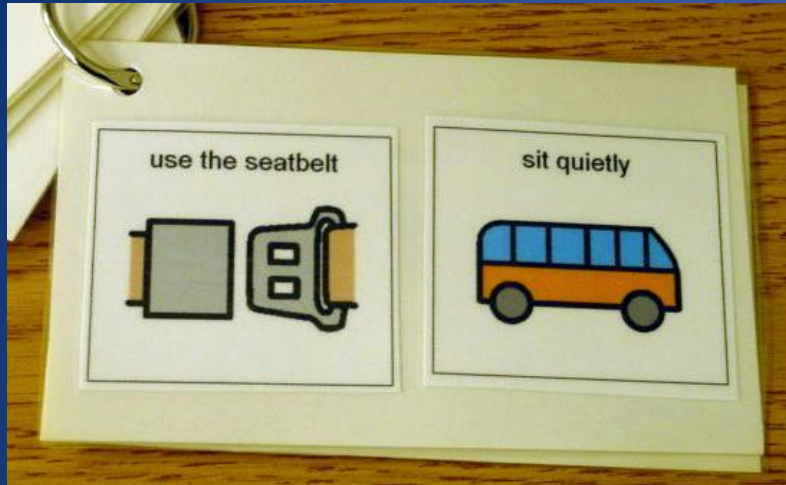


5. Finished Button



6. Card Out

Visual Cues Help Identify Expected Behaviors



Visual Cues for Waiting in Line



Choice Boards

Basic Choice Board

 I	 Want	 Eat
 Drink	 Watch TV	 Play
 Go to the Bathroom	 Go Outside	 Rest
 Tablet	 Help	 All Done


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Choice Board




hamburger




hot dog




vegetables



chicken nuggets



applesauce



My Choice:

Check-In Time

Which one is not an example of a visual support?

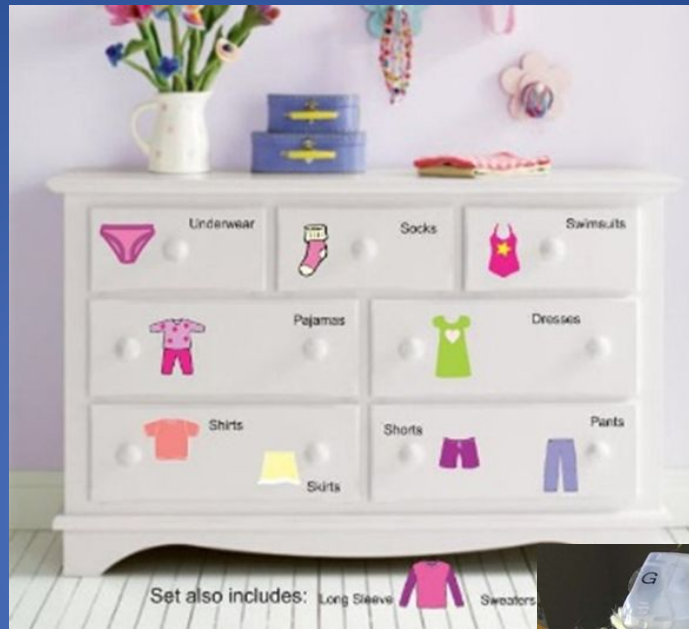
- A. Boundaries
- B. Cues
- C. Schedules
- D. Social Narratives

TAKE A MOMENT TO REFLECT

Do I currently use visuals to depict available choices for food items or free time activities or is there a way I can enhance my visuals to ensure they are accessible for all?



Labels



Prepare Visual Cues

Assess the skills of
the person by
considering two
elements:

the information
needed to be
presented visually

the form of
representation

Prepare Visual Cues: Information to Present

- Based on the identified target behavior/skill, baseline data and established goal, you will have a good idea of what information should be presented visually for the individual.
- For example, baseline data indicates that the individual is visibly anxious when he/she does not know how to complete a task. If this is the case, then visual instructions would be helpful for the person.



Let's Make Stuffing



1. Empty box into bowl.



2. Pour 1 2/3 cup hot water.



3. Put in 1/4 cup margarine.



4. Mix.



5. Put in microwave for 5 minutes.

6. Stir with fork and eat!



theautismhelper.com

wash hands



turn on



soap



wash hands



turn off



dry hands



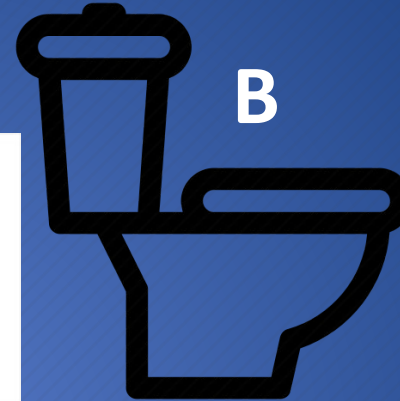
Prepare Visual Cues: Form of Representation

- Next consider the form of representation for the visual cue.
- Forms of representation include **objects, photographs, drawing or picture symbols, words**, phrases or sentences, or a combination of formats.
- The level of representation should meet the individual needs of the person with Autism as determined.

Activity: Match Form to Visual

Form of Representation

- Object
- Picture
- Drawing/symbol
- Words/Phrases
- Combination



Teaching Visual Cues

- Start by showing the person the developed visual cue.
- Staff/caregivers should stand behind the person when prompting how to use the visual cue in order to make sure the person is looking at the visual information and not the staff.
- Use concise, relevant words and terms while teaching the visual cue.
- If the person needs additional help, assist the person in participating in the activity.



Professionals Using Visual Cues



Board Certified Behavior Analyst (BCBA), Amy McCreary discusses using an “Available/ Not Available” Visual Cue board to communicate to residents which food items are accessible

Visual Schedules

- Visual Schedules are a specific type of visual support that uses **pictures, photographs** or **words** to communicate a **series of activities** or the **steps of a specific activity**. The three main types of schedules are **individual, group** and **First/Then** boards.



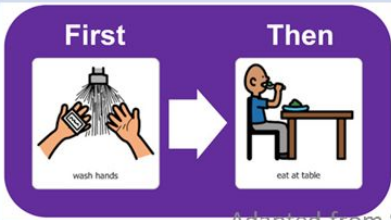
Who Needs Visual Schedules?

- Does the activity, event, or concept cause anxiety or frustration for the individual?
- Is a great deal of support required for the individual to complete multi-step tasks/activities?
- Is the activity, event, or concept difficult for the individual to understand when only verbal information is provided?
- Does the individual struggle with retention/recall of upcoming tasks, activities, appointments etc.?

If yes to any of these questions, it is likely that the individual would benefit from a visual schedule



Visual Schedules

Type	Example	What is it?	Skills/Behaviors Addressed
Individual Schedule		Schedule of the person's day	<ul style="list-style-type: none"> • Increase understanding of expectations. • Support for transitions between activities.
Daily House/Program Schedule		Posted in a central location and available for all participants	<ul style="list-style-type: none"> • Increase understanding of expectations. • Support for transitions between activities.
First/Then		Sequence of two events to help a person understand what comes next	<ul style="list-style-type: none"> • Increase understanding of expectations. • Support for transitions between activities.

Adapted from Sam, A., & AFIRM Team

Visual Schedules Should:

- Be easily understood by the individual(s) intended for
- Indicate what activities will occur and in what order
- Be arranged left to right or top to bottom
- Have a way to indicate that each activity is finished

Preparing Visual Schedules

If the person needs a visual schedule, consider the five core components of the schedule:

1. form of representation,
2. length and presentation format,
3. method of manipulating schedule,
4. location of the schedule, and
5. method of initiating schedule use.



Visual Schedule: Length and Presentation

Consider appropriate length for the person:

- One item, signifying upcoming transitions;
- Two items, presented left-to-right or top-to-bottom;
- Three to four items, presented left-to-right or top-to-bottom;
- Half-day, presented left-to-right or top-to-bottom;
- Full day, presented left-to-right or top-to-bottom;
- Technology based schedule (There are apps for everything!)



Length Considerations:

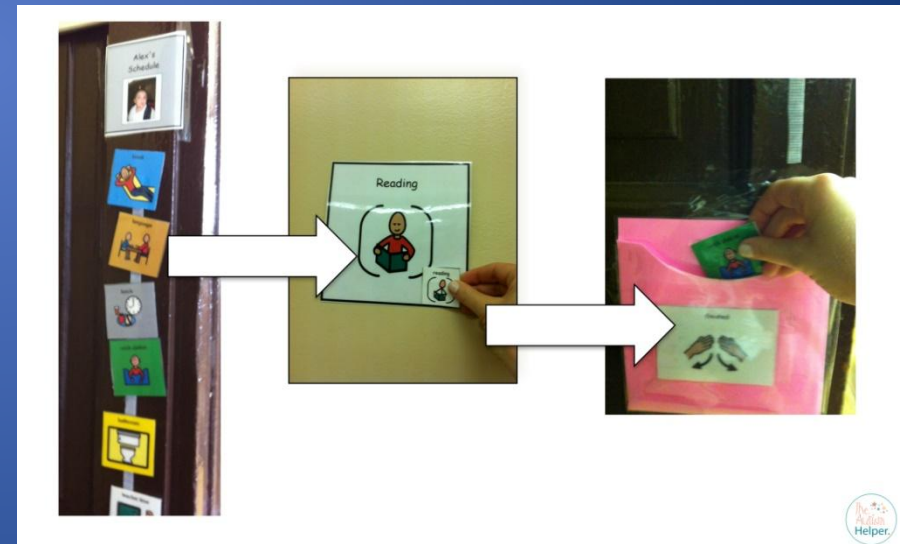


Some people find it helpful to see all the events for an entire day, while others find this overwhelming and stressful.

Visual Schedule: Method of Manipulating


Options include:

- Person carries an object that will be used in the upcoming activity,
- Person carries an object or visual cue that represents an upcoming area and then matches the object or visual cue to a pocket, basket, or envelope in the represented location,
- Person turns over the visual schedule cue or places the cue in a “finished” location when activity is completed, or
- Person marks off the visual cue on schedule as completed.




Morning Routine


6:15 am
Wake Up



6:20 am
Feed & Water Dog




6:25 am
Make Bed



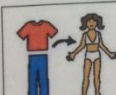
6:30 am
Brush Teeth/
Wash Face




6:35 am
Brush Hair




6:40 am
Get Dressed



7:00 am
Take Medication



7:10-7:20 am
Get on Bus



Visual Schedule: Where does it go?

Locations for schedules include:

- Schedule information brought to the person,
- A stationary schedule in a central location (on a wall, shelf, desk)
- A portable schedule that a person can carry across locations (e.g. clipboard, notebook, handheld device)

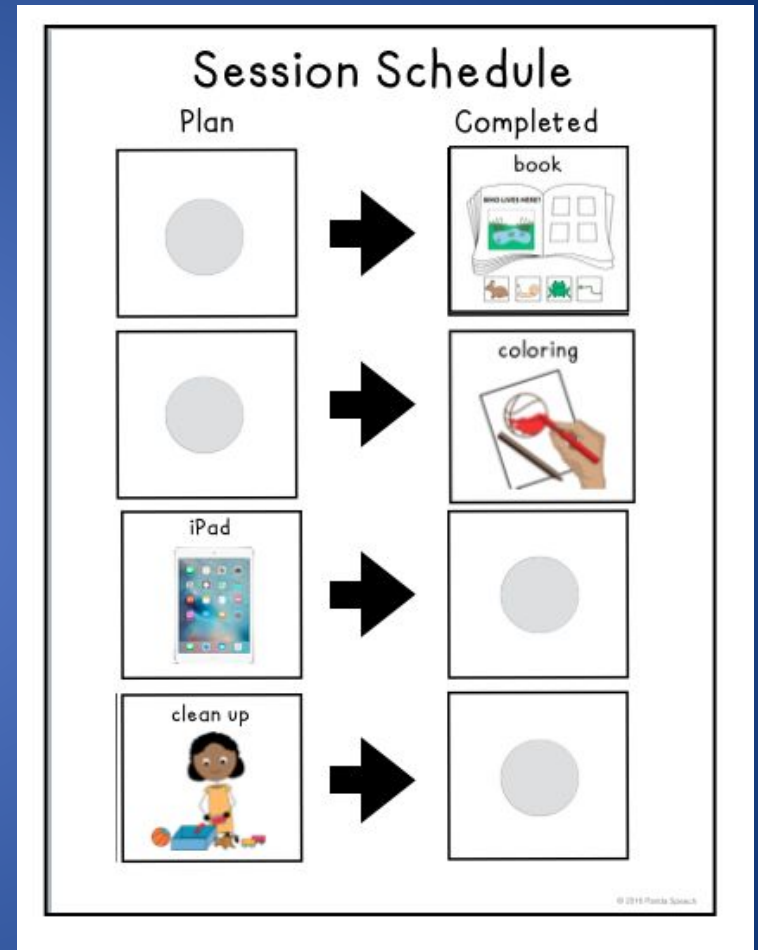
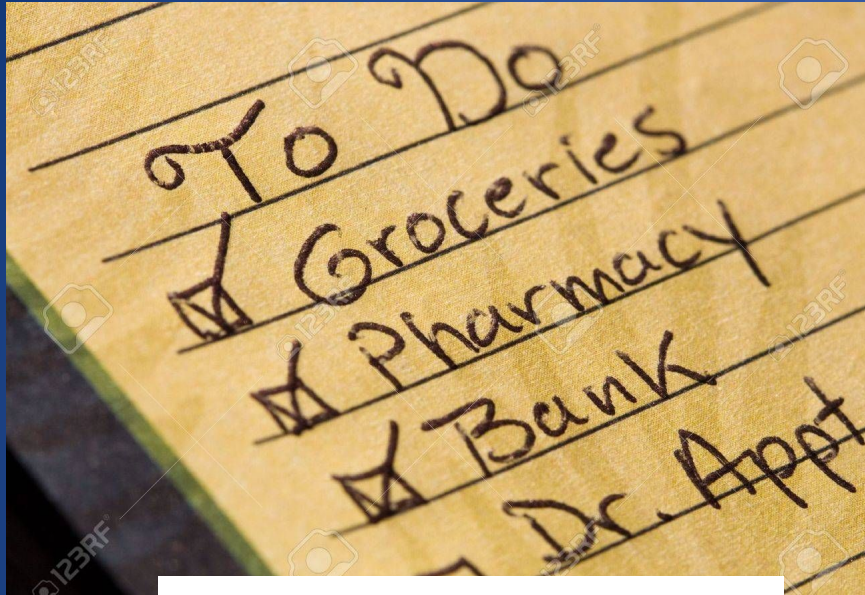


Using an Individual Schedule

- Shows/States specific order of tasks/activities
- Actively used by caregivers/staff during both task/step initiation and at completion of each task/step (“Check your schedule”)
- Individual signifies completion of each task/step (check off, cross out, put icon in “Done” section)



Individual Schedules



Professionals Using Visual Schedules



BCBA Erin Sterling discusses using a visual schedule with an adult to increase independence as well as reduce problem behavior



Change Happens!

Staff can explicitly teach about “*change*” by planning changes before an unexpected change occurs. For example, you can **teach** this process by placing a “CHANGE” card on top of a scheduled activity and placing a new schedule card on the schedule.

More about "Change"

When beginning to teach this process it is helpful to remove a non-preferred item from the schedule and replace it with a preferred activity.



Next, change from a neutral activity to another neutral activity.



Finally, remove a preferred activity and replace it with a non-preferred activity.

How to Use A Visual Schedule with CHANGE



<https://youtu.be/Jr56lhhZ4Os?t=3>

A Visual Work System Answers Four Questions Visually For The Individual

1. What Work?
2. How Much Work?
3. When Is It Finished?
4. What Happens Next?



Types of Work Systems

- Left to Right - Finished Box: This is the simplest level system
- Matching: This requires the individual to match color, shape, letter or number from a work list to a work box
- Written System: This could include specific written directions or a checklist



Left to Right Work System

“To Do”
Work
starts on
the Left



Finished
work is
placed in
finished
bin on
right

Matching System:

Materials on left



Icon matched to appropriate bin, work completed, bin returned to shelf

Work System for Snack Set Up



Using a Group Schedule

- Stationary in the environment (home, day program etc.)
- States specific order of activities
- Actively used by staff to indicate completion and transition to new activities
- A consistent signal should be used to indicate change in activities or change to schedule

Whole House/Program Schedule

TIME FOR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
	SELF-HELP	SELF-HELP	SELF-HELP	SELF-HELP	SELF-HELP
	MORNING MEETING	MORNING MEETING	MORNING MEETING	MORNING MEETING	MORNING MEETING
	SNACK TIME	SNACK TIME	SNACK TIME	SNACK TIME	SNACK TIME
	BOWLING	LIBRARY	ARTS AND CRAFTS	COOKING CLASS	FREE CHOICE
	LUNCH TIME	LUNCH TIME	LUNCH TIME	LUNCH TIME	LUNCH TIME
	SELF-ADVOCACY	SELF-ADVOCACY	SELF-ADVOCACY	SELF-ADVOCACY	SELF-ADVOCACY
	VOCATIONAL	VOCATIONAL	VOCATIONAL	VOCATIONAL	VOCATIONAL
	LOADING	LOADING	LOADING	LOADING	LOADING

ARTS AND CRAFTS

FREE CHOICE

Kids Chores Chart

	SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
Make my bed 	 			 	 		
Share my things 						 	
Set the table 			 		 		 
Put away my toys 	 			  	 	 	
Pack my school bag 							 
Clean my room 	 			  			
Take a bath 						 	
Wash my hands 				 		  	
Eat all of my dinner 	 			 		 	
Read a book 	 						

when _____ gets  they receive _____

when _____ gets _____ they receive _____

when _____ gets  they receive _____

when _____ gets _____ they receive _____



First - Then

A Visual Schedule System

- Basic visual system
- Identifies the order of activities
- May be used in a variety of settings at several levels
- Great tool for helping with transitions
- Great to show a preferred activity is following a non-preferred activity
- A timer can be attached to the system if needed

First



wash hands

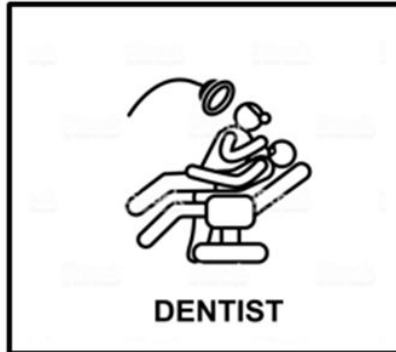


Then

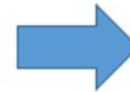


eat at table

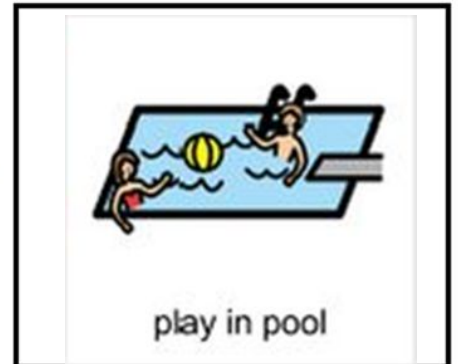
FIRST



DENTIST



THEN



play in pool

First-Then-Then Board




Activity: Match VS to Situation

- Tom needs support to transition between activities
 - Jorge is late to program on a daily basis. He is easily distracted by other people's toiletries and requires frequent redirection.
 - Lonnie is able to do each step of his toileting routine, but is dependent on verbal prompts to move through the sequence.
- A. Visual Instruction
 - B. First/Then Schedule
 - C. Visual Boundaries

Which Visual Support to Use?

The VS Pre-assessment Checklist can help inform your decision



VS Pre-Assessment Checklist

Learner's Name: Noah Date: 4/14/16

Observer: Mr. Adams

Directions: Complete the checklists below to determine what category of visual supports to use.

Visual Boundaries

Questions	Yes	No
Is there a safety concern?		X
Does the learner have difficulty staying in one place?		X
Does the learner with ASD know what s/he is to be working on in an area?		X
Does the learner with ASD ever leave a location because of frustration?		X
Does the learner with ASD ever have difficulty with entering others' work space and/or making use of others' work or personal materials?		X

If you answer yes to any of these questions, **visual boundaries** might be helpful to use with the learner with ASD.

Visual Cues

Describe the activity/event/concept: Completing a math assignment

Questions	Yes	No
Does the activity, event, or concept cause frustration for the learner with ASD?	X	
Does the activity, event, or concept cause anxiety for the learner with ASD?		X
Is adult support required for the learner with ASD to be successful with the activity, event, or concept?	X	
Is the activity, event, or concept difficult for the learner with ASD to understand when only verbal information is provided?	X	

If you answer yes to any of these questions, **visual cues** might be helpful to use with the learner with ASD.

Visual Schedules

Questions	Yes	No
Does the learner with ASD struggle moving from one area to the next?	X	
Does the learner with ASD forget what s/he is asked to do next?	X	
Does the learner with ASD exhibit disruptive/inappropriate behavior when transitioning?		X

If you answer yes to any of these questions, **visual schedules** might be helpful to use with the learner with ASD.

Anecdotal Notes: Noah has a difficulty time transitioning from lunch to math class. He arrives late at math class often. In math class, he becomes frustrated when presented with a math problem during independent work. Mr. Adams has to help him complete the assignment.

Visual Supports (VS) ---Implementation Checklist---

Before you start:

Have you...

- Identified the behavior?
- Collected baseline data through direct observation?
- Established a goal or outcome that clearly states **when** the behavior will occur, **what** the target skill is, and **how** the team will know when the skill is mastered.

If the answer to any of these is "no", refer to the "Selecting EBPs" section on the website.

	Observation	1	2	3	4
	Date				
	Observer's Initials				
Step 1: Planning					
1.1	Identify visual supports needed to acquire or maintain target skills				
1.2	Develop/prepare visual support for learner based on individualized assessments				
1.3	Organize all needed materials				
Step 2: Using					
2.1	Teach learner how to use visual support				
- <i>Boundaries:</i>					
<input type="checkbox"/>	Introduce boundary to learner				
<input type="checkbox"/>	Use modeling to teach learner to stay within boundary				
<input type="checkbox"/>	Use reinforcement to encourage learner to stay within boundary				
<input type="checkbox"/>	Use corrective feedback when learner does not stay within boundary				
- <i>Cues:</i>					
<input type="checkbox"/>	Show learner visual cue				
<input type="checkbox"/>	Stand behind learner when prompting use of visual cue				
<input type="checkbox"/>	Use concise, relevant words/terms while teaching visual cue				
<input type="checkbox"/>	Assist learner in participating in activity/event with visual cue				
- <i>Schedules:</i>					
<input type="checkbox"/>	Stand behind learner when prompting use of visual schedule				
<input type="checkbox"/>	Place schedule information in learner's hand				
<input type="checkbox"/>	Use concise, relevant words/terms				
<input type="checkbox"/>	Assist learner in getting to designated activity/location, and prompt				
<input type="checkbox"/>	Ensure learner remains in scheduled location until prompted to use				
<input type="checkbox"/>	Repeat steps until learner is able to complete the sequence independently across activities/locations				
2.3	Use visual supports consistently and across settings				
Step 3: Monitoring					
3.1	Collect data on target behaviors and use of visual supports (independence during use and progress through forms/types of supports)				
3.2	Determine next steps based on learner progress				

Use the Implementation Checklists to Insure Fidelity Across Implementors/Staff

Use VS Consistently and Across Settings

Be consistent with the use of visual supports.

Make sure all staff working with the person are consistent with expectations, reinforcement, correction, and follow-through regarding the use of visual supports.

This includes being consistent across settings.

Collect data on use of VS

- Data should be collected on the person's use of the visual support to determine progress.
 - For visual cues and schedules, be sure to include the level of independence during the use.
 - Also, track the various forms/lengths of visual schedules and visual cues that the learner uses.
- For example, a learner who was using objects at the beginning of the year might be able to use a two sequence picture schedule by mid-year.

Collect Data on Target Behaviors related to use of VS

- Collect data on the person's target behaviors related to the use of the visual support.
- This may include time on-task (or off-task), the amount of work completed, the use of appropriate behaviors, and how much support (e.g. prompts or reminders) the person needs.
- This information will be helpful in determining the effectiveness of the visual support as it relates to the target behavior and goal.



Visual Supports Monitoring Activity

- <https://afirm.fpg.unc.edu/visual-supports/lesson-4-monitor-vs/monitoring-activity>

Determine Next Steps Based on Progress

- Work with members of the person's support team to determine if sufficient progress is being made based upon the data collected.
- If the person is showing progress, then continue to use visual supports. New types of visual supports could be used to address new target skills or behaviors for the learner.



Check-In Time

What data should be collected when using visual supports?

- A. Level of independence
- B. Amount of work completed
- C. Time on-task
- D. All of the above

Thin Prompts When Criterion Met

- Initially, the person might require prompts to use the visual support correctly. By thinning prompts quickly, you will teach the person to not rely on prompts but rather use the visual supports independently.
- Remember, the purpose of visual supports is to increase independence.



Multiple Choice: When should you reduce or fade prompts

- A. Jorge makes it to day program on time for 2 weeks in a row. He has not gotten into the toiletry baskets of any of his peers in those two weeks.
- B. Tom wanders away during transitions and does not attend to the first/then board.
- C. Lonnie is able to do 4/5 steps in his toileting routine independently.
- D. A and C



Not showing progress?

- Is the target skill or behavior well defined?
- Is the skill or behavior measurable and observable?
- Is the skill too difficult and needs to be broken down into smaller steps?
- Have we devoted enough time to using this strategy?
- Were visual supports used with fidelity?
- Are the visual supports appropriate for the person?
 - Are visual boundaries clear? Are additional boundaries needed?
 - Is the form of representation (e.g. object, photographs, words) appropriate for the person?
 - Is the length of the visual support appropriate for the person?
 - Do staff/caregivers need to provide more support for the person in using the visual support?



Autism Focused Intervention Resources & Modules

Visual Supports

Visual Supports (VS)



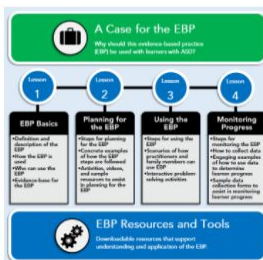
By using visual supports (VS), the learner with ASD might be able to process information easier and more quickly.

What Will I Learn?

The AFIRM model guides the learner through four lessons to facilitate:

- Learning basic knowledge about visual supports (VS).
- Applying VS in activity based scenarios that promote real-world application.

The VS module will take approximately 1.5 to 2 hours to complete. However, the module is broken into individual lessons to help guide your learning:



[Click to view AFIRM model](#)

Lesson	Time to Complete
A Case for VS	10 minutes
Lesson 1: Basics of VS	20 minutes
Lesson 2: Planning for VS	25 minutes
Lesson 3: Using VS	25 minutes
Lesson 4: Monitoring VS	25 minutes
Applying VS	10 minutes

If you leave the module prior to finishing, your place within the module will be saved. From your My Account page, look in the My Modules tab and select the last page viewed to resume this module.

Suggested citation:

Sam, A., & AFIRM Team. (2015). *Visual supports*. Chapel Hill, NC: National Professional Development Center on Autism Spectrum Disorder, FPG Child Development Center, University of North Carolina. Retrieved from <http://afirm.fpg.unc.edu/visual-supports>

Self Study Using the Autism Focused Intervention Resources and Modules (AFIRM)

Ready-Made Visual Supports

- A collection of pre-made downloadable and printable visual supports are available through the following link:

https://drive.google.com/drive/folders/100-5Vn1HzrutTC_tR64bYWY-uBrgJ0aI?usp=sharing



Post-Test

What have you learned....

