Strategies for working with individuals with autism spectrum disorders (ASD)

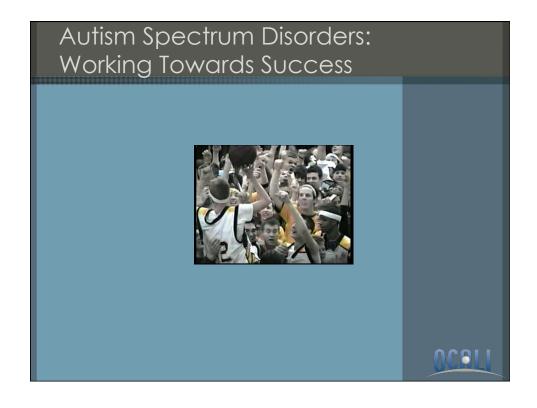
Ohio Center for Autism and Low Incidence

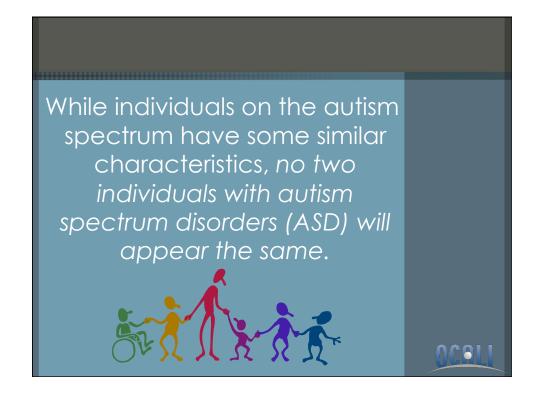
Bryan City Schools October 13, 2008

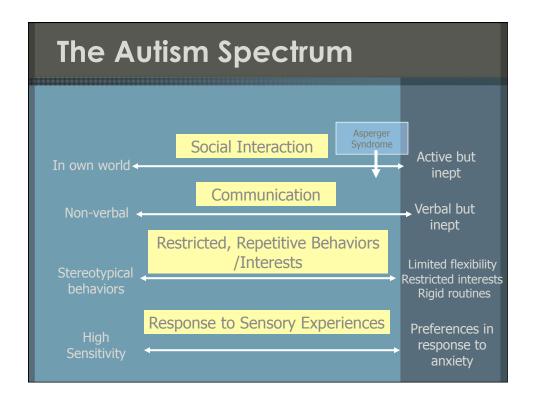
Objectives

- Participants will gain knowledge of characteristics/differences specific to individuals with autism spectrum disorders (ASD).
- Participants will gain knowledge of supports for individuals with ASD designed to increase their success in both the general education and special education environments.
- To discover and review the necessary educational and classroom components for students with ASD within general and special education settings.











Types of Pervasive Developmental Disorders

- Autism
 - Display characteristics prior to 36 months of age
 - Often accompanied by mental retardation (75%)
 - Cognitive skills are often uneven (i.e., splinter skills, hyperlexia)
 - Deficits in executive function (forward planning and cognitive flexibility)
 - Fine and gross motor skill deficits

DSM-IV-TR



Types of Pervasive Developmental Disorders

- High-Functioning Autism
 - Children who are autistic by definition yet are able to communicate.
 - May not have overly severe social impairments.
 - IQ ratings are near normal, normal, or even high

DSM-IV-TR



Types of Pervasive Developmental Disorders

- Asperger Syndrome (AS)
 - Normal language development
 - Very literal, speak beyond their maturity level, have difficulty with comprehension and abstract <u>reasoning</u>
 - Difficulty with social situations and unstructured time
 - Sensory difficulties
 - Motor functioning issues
 - Organization issues

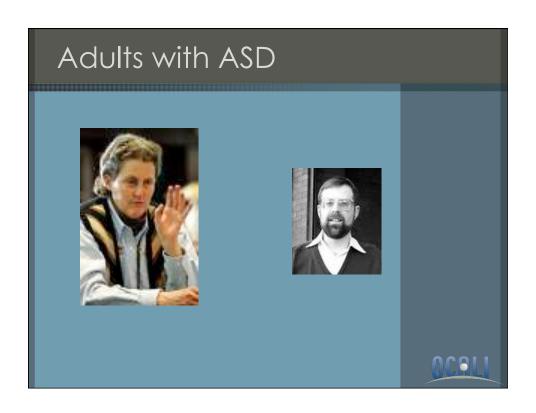
Cooper, T. L. (2003). Unpublished Handout

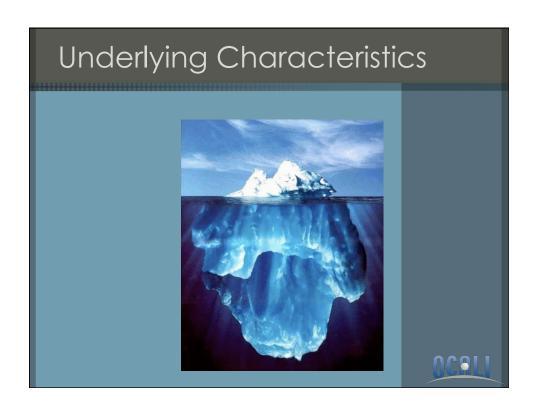
Types of Pervasive Developmental Disorders

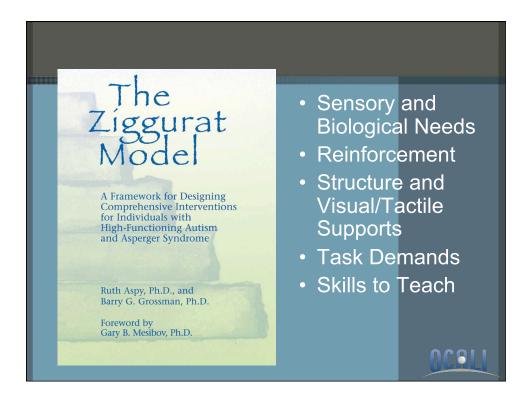
- Pervasive Developmental Disorder
 - Not Otherwise Specified (PDD-NOS)
 - Individual does not meet the criteria for only one specific diagnosis

DSM-IV-TR

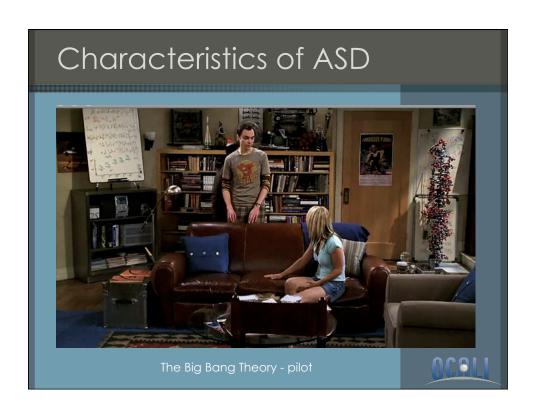


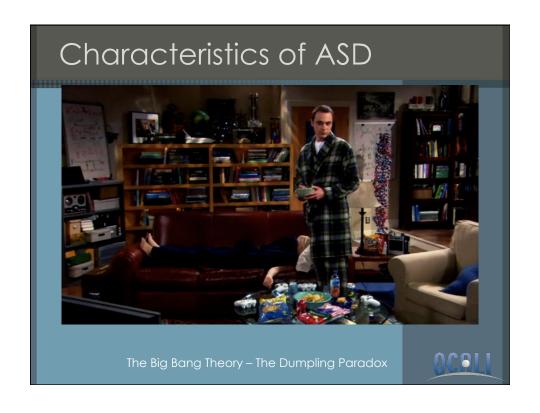


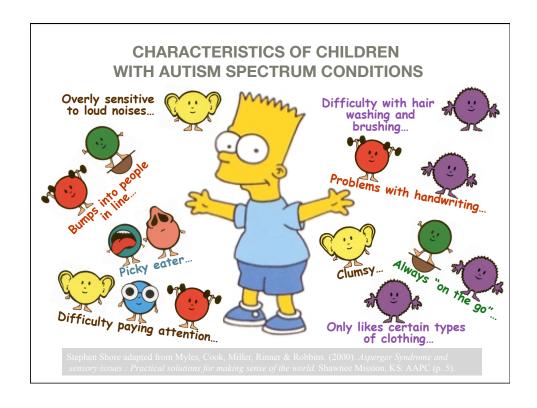




Characteristics Social Restricted Patterns of Behavior, Interests, and Activities Communication Sensory Differences Cognitive Differences Motor Differences Emotional Vulnerability Known Medical or other Biological Factors







Basic Challenges in the General Education Environment

- Different academic levels
- Taxes executive functioning
- Larger class size
- Less supervision
- Transitions
- Directions
- Social Issues
- Communication issues (directions, interpretations)
- Less individualized instruction



Characteristics - Impact on Success in School

- Cognition
 - Maturity
 - Rote Memory
 - Theory of Mind Deficits
 - Executive Functioning
 - Problem Solving Skills
 - Generalization
 - Special Interests



Characteristics - Impact on Success in School

- Language and Socialization Issues
 - Lack of a communication system.
 - Lack of interest in socialization.
 - Lack of understanding that nonverbal cues such as facial expressions, gestures, proximity, and eye contact convey meaning and attitudes.
 - Difficulty using language to initiate or maintain a conversation.



Language and Socialization continued

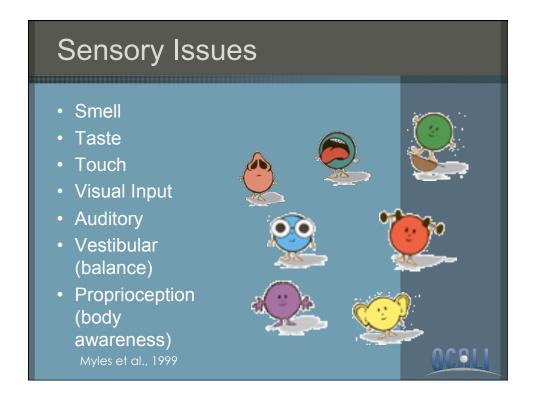
- A tendency to interpret words or phrases concretely.
- Difficulty realizing that other people's perspective in conversations must be considered.
- Failure to understand the unstated rules of the hidden curriculum or the set of rules that everyone knows, that have not been directly taught.
- Lack of awareness that what you say to a person in one conversation may impact how they interact with you in the future.



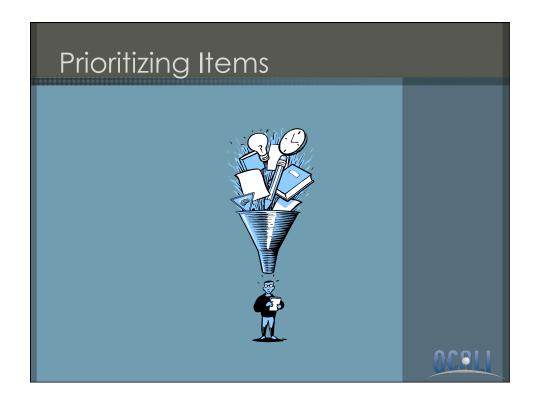
Characteristics - Impact on Success in School

- Sensory Awareness
 - The ability (or inability) of the student's sensory system to utilize the sensory information collected through the seven sensory systems. Teaching the student to become aware of their sensory needs helps them self-regulate.





Characteristics - Impact on Success in School • Behavior - Communicative Intent - Teach Expectations - Anxiety and Stress - Depression - Distractibility and Inattention - External and Internal Tantrums Rage and Meltdowns



Translating Research to Practice

- Effective Strategies that assist individuals with ASD in the school setting.
 - Student Strengths
 - Structure and Communication,
 Sensory, and Behavioral Supports
 - Academic Supports
 - The Hidden Curriculum and other Social Supports



How to provide success? ASK ME

- Accepting need to understand the characteristics of the individual
- Structured activities and environment (schedules, labeling)
- Kind & Supportive staff, peers, family
- Motivating enjoyable tasks or working for a preferred activity
- Enriching love to learn

Ask Me about Asperger's Syndrome (2005)



Consistency and Clear Communication of Expectations

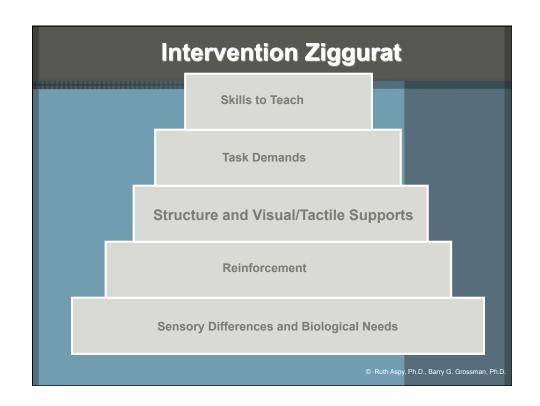
- Communication of expectations is key.
- Teacher expectations must be translated into rules and routines that students understand.
- Often rules are posted, but expectations are inferred and vary from task to task.
- Individuals with AS have difficulty integrating the social, cognitive, and communication domains, so regulating for different expectations is difficult for them.

B. S. Myles, 2005

Important Skills for Everyone

- The image each student projects impacts how teachers and others perceive them and interact with them. Richard Lavoie (1994) has outlined several characteristics that should be taught to all students in every classroom because they are held in high esteem by adults and peers.
 - Smiling and laughing
 - Greeting others
 - Extending invitations
 - Conversing
 - Sharing
 - Giving compliments
 - Good appearance

B. S. Myles, 2005





How Long Does Sensory Input Last ?					
	SENSORY SYSTEM	LENGTH OF TII	ME		
	Tactile	1 to 1 1/2 hours			
	Vestibular	4 to 8 hours			
	Proprioceptive	Up to 1 1/2 hour	S		
	Auditory, Gustatory, and Olfactory	Transitory			
Brack, 2006			OCELL		

Sensory Diet Is ...

- A planned and scheduled activity program designed to meet a child's specific sensory needs (Yack et al., 1998)
- Incorporates naturally occurring opportunities for children to get the sensory stimulation they need (Willbarger, 1995)

Miller & Robbins, 2005

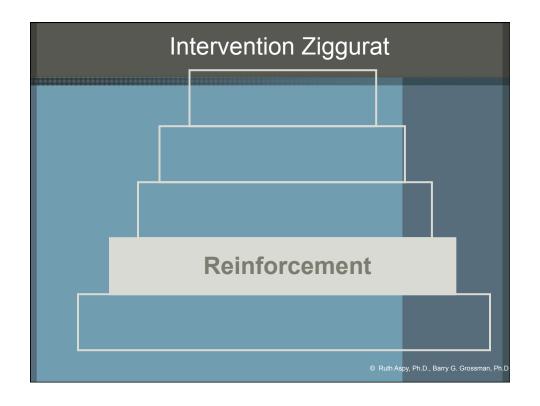


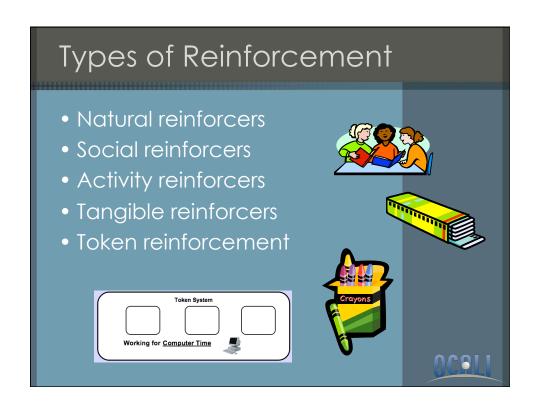
Functional Sensory Diet Activities

- Load/unload chairs
- Deliver materials
- Set up equipment for PE, assembly, etc ...
- Carry weighted book bag
- Wear spandex clothing under clothes
- Push grocery/library cart

- Rake, shovel, dig, vacuum
- Pull wagon
- Push wheelchair
- Crush cans
- Sharpen pencils
- ... and many more ... designed by an occupational therapist







Token Reinforcement

- Involves awarding points or tokens for appropriate behavior
- Points/tokens are exchanged for something of value (preferred item) at a later time
- Tokens (stickers, coins, smiley faces) can be reinforcing in and of themselves





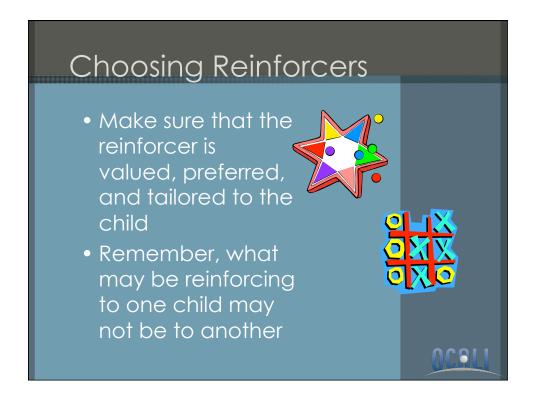


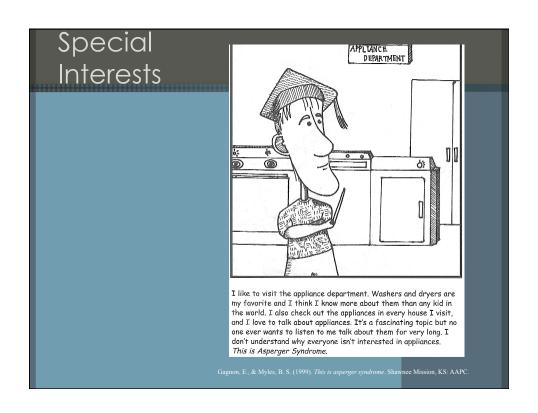
OCELI

Example

- Scenario: Chris is in 7th grade and diagnosed with autism. Team would like him to begin attending P.E. class. Will start with swimming rotation.
- Reinforcement:
 - Activity reinforcement: Chris loves to swim!
 - Social reinforcement: Schedule Chris in class with peers that are familiar with his needs and with whom he enjoys spending time.
 - Tangible reinforcement: Chris receives a swimming pass to swim during a study hall.
 - Token reinforcement: Chris receives token for each time that he follows swimming rules.







Star Wars Episode 0

By
An eighth grader who happens to have
Asperger Syndrome

Episode 0 Parting of the Peace

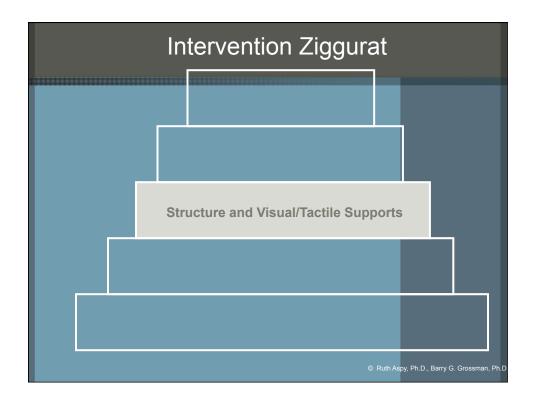
The peace has parted in the galaxy. The evil Imperial Trade Federation has been taking control over the small planet of Tingion.

The Jedi council, keepers of the peace, have had many Jedi wounded by the Federation in attempts to end the problems.

The council has planned to send teams of Jedi to stop the Federation. But the question is, will they succeed?...







Common Misconceptions

- If an individual can read then she does not need pictures or symbols
- He's in high school, he does not need an
 - individualized schedule
- I can stop using a visual schedule once my student learns the routine
- If a student has not looked at her schedule in three weeks she does not need it anymore

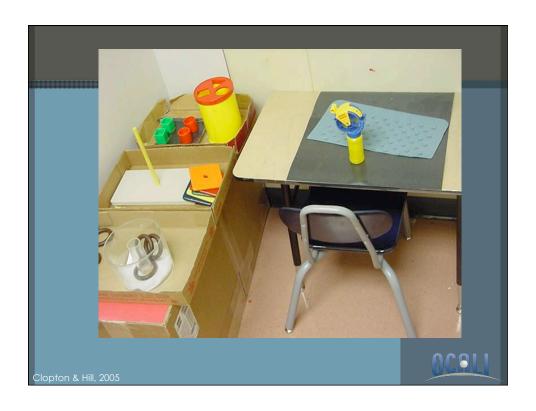


Visual Supports

- Visual schedules are effective in decreasing
 - Off-task behaviors
 - Disruptive behavior
 - Noncompliance
 - Aggression
 - Tantrums
 - Property destruction







Structured Settings

- Include clearly defined areas for each activity
- Include visual reminders of classroom expectations
- Provide adequate spacing to allow for personal space preferences
- Provide organization of materials (color coding, labeling)
- Provide a home base quiet place where student with AS can go to plan or review information or to cope with stress and behavioral changes.

B. S. Myles, 2005



Structured Settings Relate to the Characteristics of individuals with ASD - Provide predictability through boundaries - Clutter is reduced, reducing the anxiety for the individual - Provide visual organization –specific place for things - Allow for fewer visual distractions

Structured Setting Examples Individual Areas Meals Desk/Workspace • Snack table Locker Cafeteria Backpack Notebook Leisure Shared Space Classroom Play • Small group Area table/activity Recess Classroom Study hall Hallway UCOLI

Teaching Rules and Routines

- Explain why it is important
- State objective what we'll learn today and how we will do it
- Explain the steps
- Model them
- Walk the students through them one step at a time
- Have them practice with feedback from you
- Independent practice





General Strategies for Successful Daily Transitions

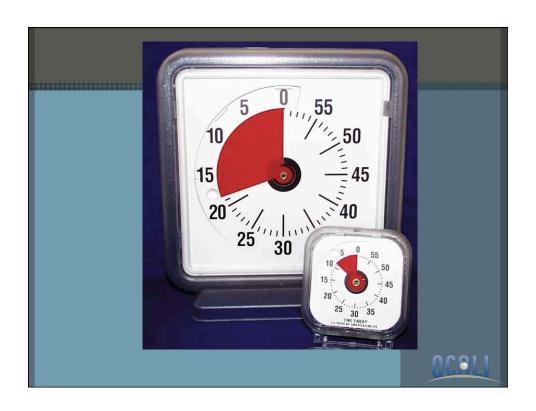
- Easily understood and concrete choices
 - a visual choice board of readily available choices for break/ reinforcement
- Clearly defined expectations
 - As students begin to change classes in middle school, provide them with a list of each teacher's rules
- Extra processing time
- Concrete instructions (less verbal, more visual)
 - Directing journal writing with questioning techniques

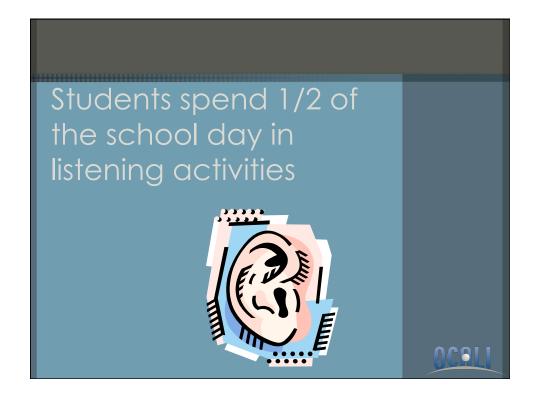
Schelvan, Swanson & Smith (2005).

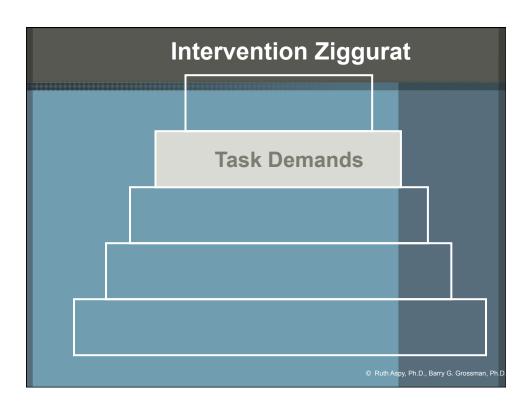
Easing Transitions

- Pictures of follow-up activities
- Schedules
- Use of first___, then___
- Natural clues to next activities
- Warnings with a timer
- Verbal Warnings









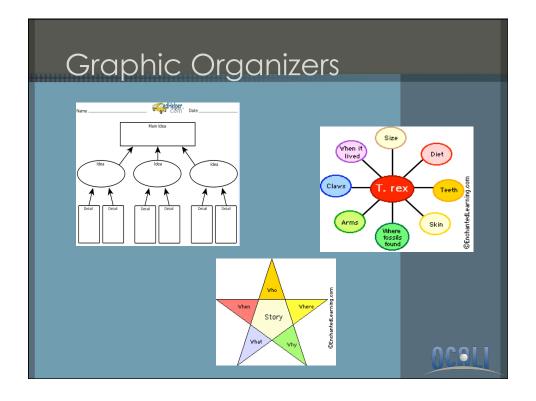


Task Demands – Three Questions

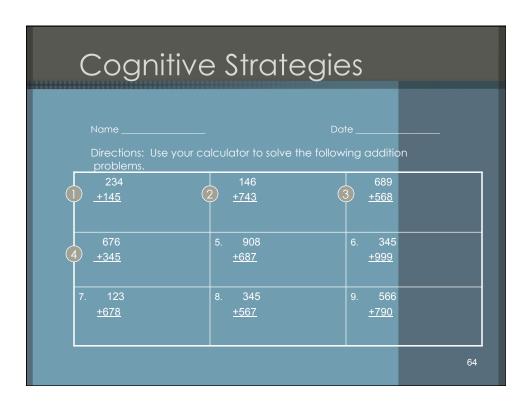
- Are you asking for performance of a skill that is too hard?
- Are you asking for performance of a skill that has not been taught?
- Are you asking for a task to be accomplished without the necessary supports?

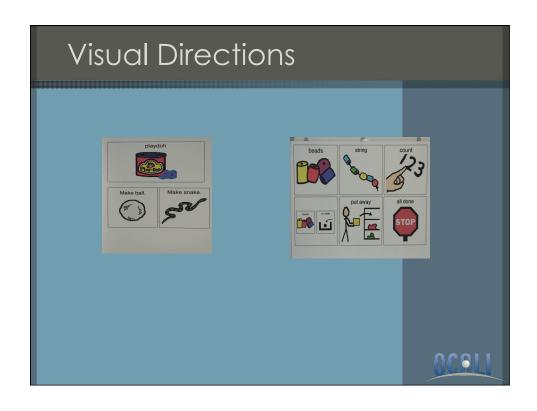
Ruth Aspv. Ph.D., Barry G. Grossman, Ph.D

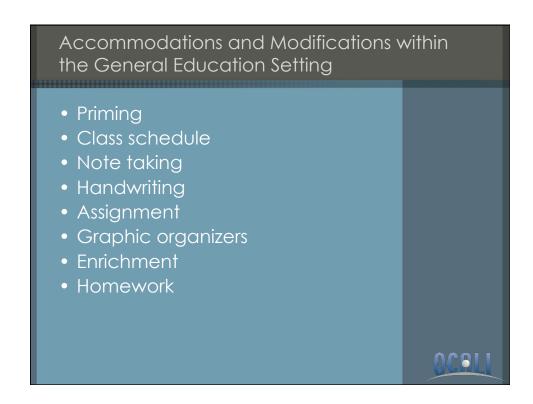




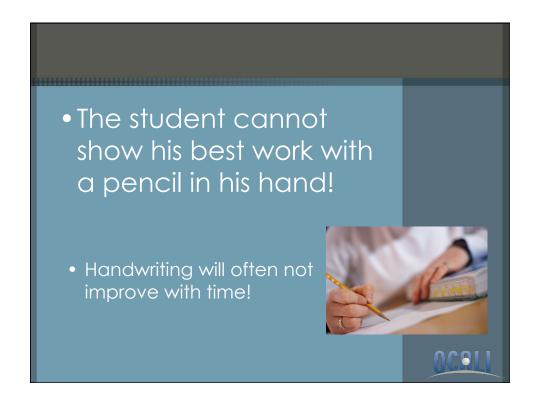
Word Banks		
Julia is in the 3rd grade and is having diff paragraph about dolphins. She uses a v her generate ideas.		
There are more than 45 differentof dolphins. They can be found on all Dolphins are veryanimals and can be easily They eat over 22 pounds of food daily.	land water coasts quiet species social lost trained hungry	
		OCALI







Priming Preparing the student for daily activities Can occur At home for the next day The morning of in school At the end of the school day for the next day Overview of schedule changes, assignments and activities



Handwriting Modifications

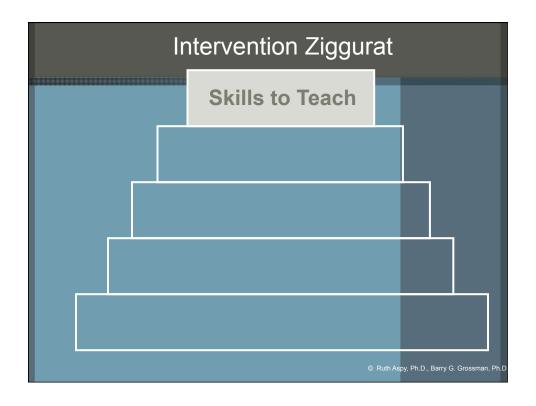
- Allow the student to underline or highlight answers to questions in a text instead of writing them out
- Allow the student to use a PDA, laptop, or computer to respond to questions
- Provide a scribe if necessary
- Investigate instructional and assistive technology solutions

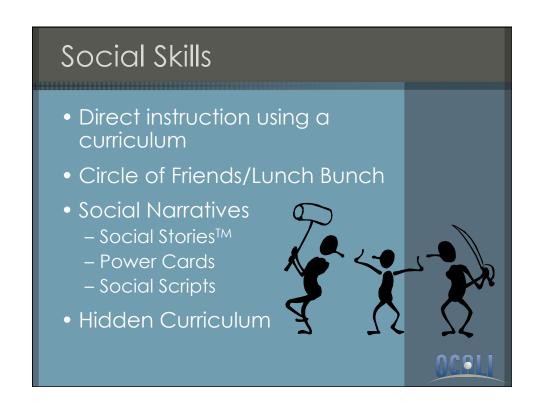


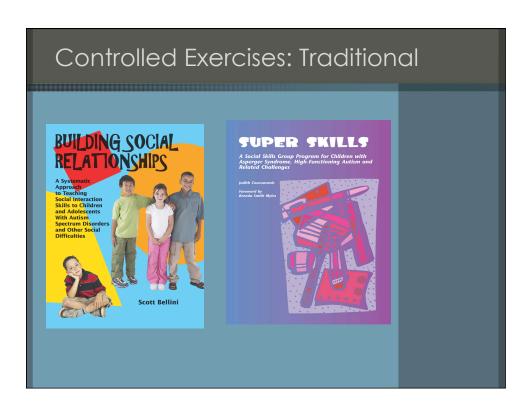
Homework

- Identify purpose of homework
- Identify the amount of time the student must spend on homework
- Recognize that homework is a family activity
 - And that some families CANNOT do homework
- Provide enough specificity so that parents understand the assignment solely from the written information













Social StoriesTM

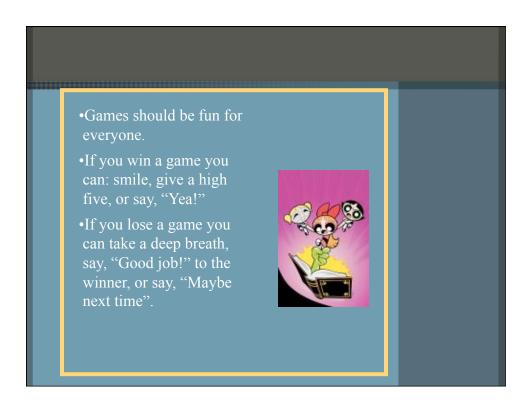
- Short stories that describe social situations in terms of relevant social cues and often define appropriate responses.
- They are a visual cue that explain situations and allow for student reflection.

Carol Gray



Nancy

- Nancy demonstrated behaviors that her general and special education peers considered inappropriate when she was placed in any competitive situation
- Interest: The Powerpuff Girls



Scripts

- Provides verbatim or near verbatim structure
- Uses child/adolescent-friendly language
- Targets one social situation
 - Increases predictability
 - Decreases stress

Adaptive Behaviors

- Problem Solving
 - SOCCSS
 - SODA
 - Cartooning
- Self Regulation
 - The Incredible 5-Point Scale
 - When My Worries Get Too Big
 - The Way to A
 - My Book Full of Feelings

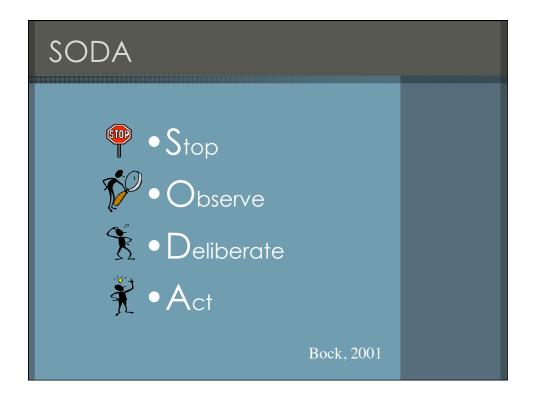


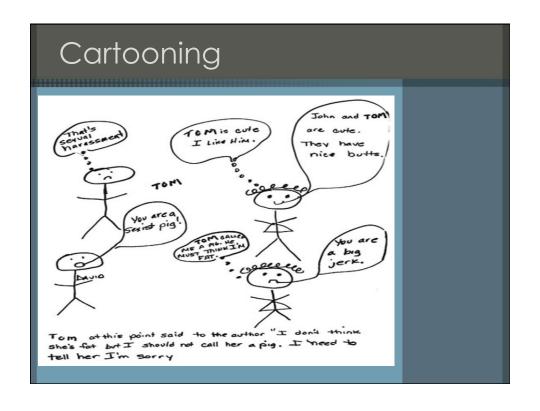
Situations-Options-Consequences-Choices-Strategies-Simulation

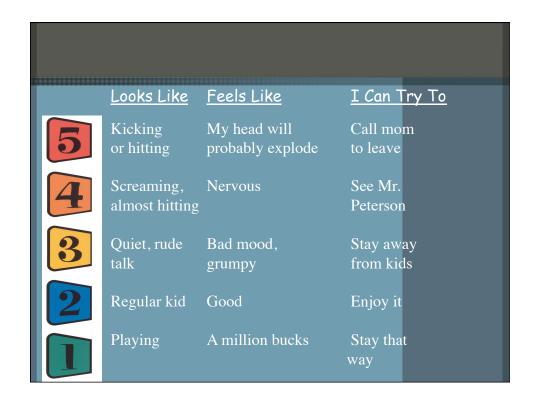
Consequences	Choice
Get caught and get an F	No
Get beat up	No
,	No
No copying; no F	Yes
	Get caught and get an F

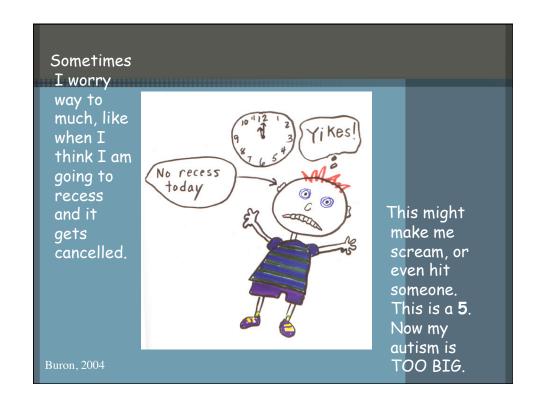
Strategy - Plan of Action
Tell the teacher at recess
when no one is around

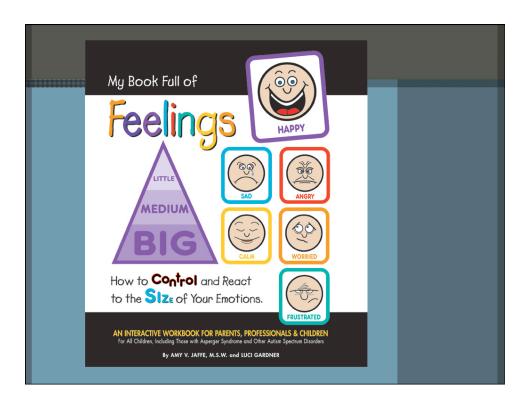
Simulation/Follow-up
Role play with student until
comfortable. Follow-up.











What is the Hidden Curriculum?

- An unwritten set of rules or guidelines.
- These social rules are never directly taught either in the school or home environments.
- These rules can pertain to social interactions, expected routines, hygiene issues, safety issues, and a variety of things that just cannot be put into a category.



How can we determine what items are Hidden Curriculum items?

- If you are tempted to say the following you are probably dealing with a Hidden Curriculum item:
 - I shouldn't have to tell you this, but...
 - It should be obvious that...
 - Everyone knows that...
 - Common sense tells us...

Hidden Curriculum

- Differs across
 - Age
 - Gender
 - Depending who you are with
 - Cultures

Body Language is part of the Hidden Curriculum

- Leaning your head to one side may mean that you are thinking, not hearing well enough, or possibly not understanding what the speaker is saying.
- Making a scowl might indicate that you are not happy, angry, expressing displeasure, or trying to intimidate someone.
- The corners of your mouth are usually lifted upward if you are happy or even greeting someone.

Shevlan & Myles, 1999

Impact of the Hidden Curriculum

- - How to dress
 - What type of backpack to carry
 - What games are acceptable to play

 - Teacher expectations What to do when the bell rings
 - Physical plan of the building
- - Values and rules of the individual family

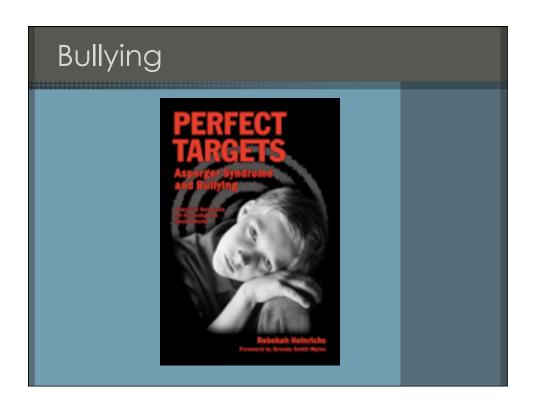
- Community
- Library etiquette of age 5 vs. age 15

 What to do when you like a girl age 5 vs. age 15
- - What does casual dress mean?
 - Do you go out to
 Iunch or bring your
 Iunch?
 - Is there someone at work who should be avoided?
- Legal System
 - Do not confess to a crime that you did

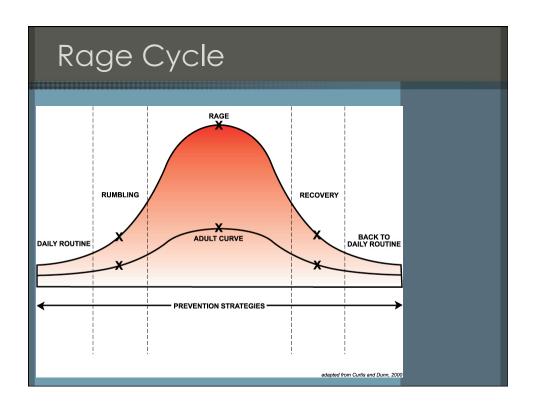
Hidden Curriculum Areas

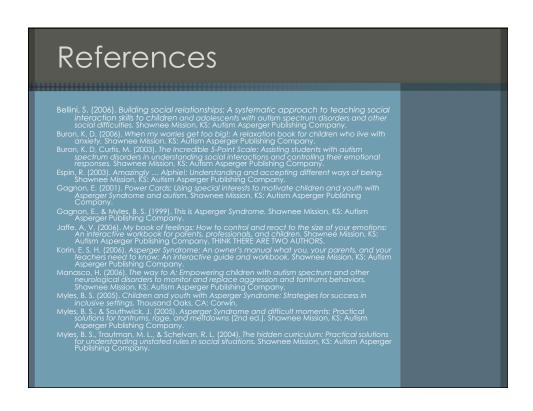
- Birthday Parties
 - Do not ask to be invited to a birthday party.
 - Only the birthday person can blow out the candles.
- Clothing
- Eating
 - Always chew with your mouth closed.
 - Burping loudly is not appropriate when you
- Friendships
 - You do not have to pay someone to be your

Shevlan & Myles, 1999



The Rage Cycle Rumbling Rage Recovery Brenda Smith Myles





Thank you.



Ohio Center for Autism and Low Incidence

www.ocali.org www.nattapconference.org www.autisminternetmodules.org

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