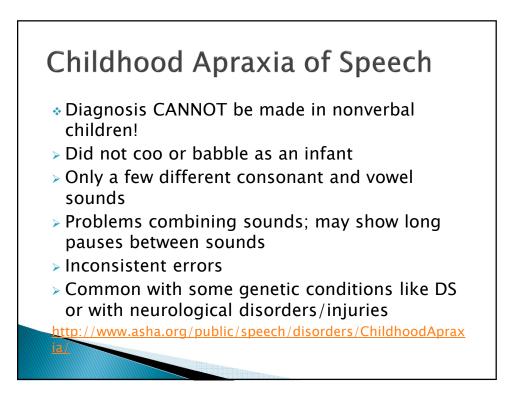


Carrie Clark, CCC-SLP The Speech Therapy Solution www.SpeechandLanguageKids.com



- Autism
- Childhood Apraxia of Speech
- Motor Problems
- Late Talker
- Developmental Delay (Expressive & Receptive)
- Selective Mutism
- Combination of Multiple





Motor Problems

- Child has motor or neurological impairments which make it impossible or very difficult for the child to produce speech
- General muscle weakness
- Respiratory Problems
- Severe Dysarthria (caused by damage to brain)
- Cerebral Palsy





- Problems with receptive and expressive language
- May have delays in other areas
- Does not follow directions or understand as well as age-matched peers
- Difficulty communicating basic wants and needs in any way, including nonverbally
- May be due to a genetic problem or birth complication or may have no known etiology or cause of problems



- Child is nonverbal at school or in public but has at least one setting and/or communication partner that the child will speak with
- May also have: excessive shyness, anxiety disorder, social isolation/withdrawal
- May see anxiety when talking expectations are placed
- Not truly nonverbal as they will speak in some setting. Not addressed today



- Some children have multiple disabilities which result in nonverbal
- Common concomitant disorders:
 - Down Syndrome and Apraxia
 - Autism and Apraxia
 - Down Syndome and Developmental Delay
 - Autism and Developmental Delay
 - Motor Problems and Apraxia



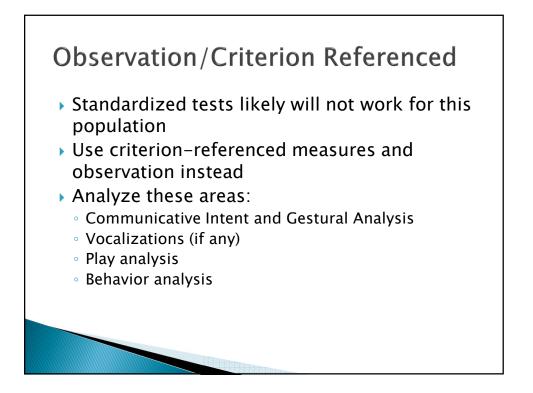
- Hearing/Medical Cleared
- Parent/Caregiver/Teacher Interview
- Observation/Criterion-Referenced Measures

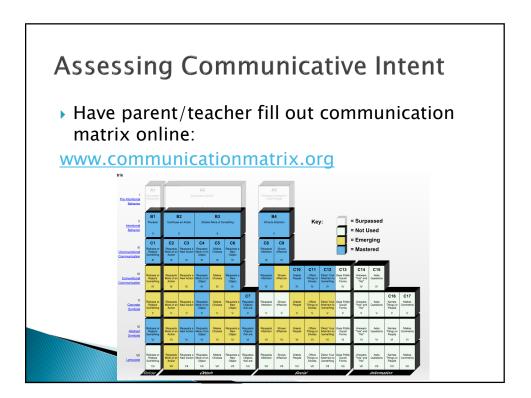


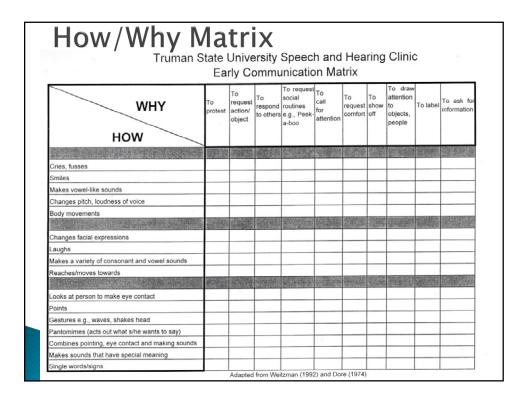
- Before evaluating, make sure:
 - Hearing has been checked recently
 - Vision has been checked recently
 - Review existing medical information if relevant medical problems exist
 - Research how medical conditions may impact communication

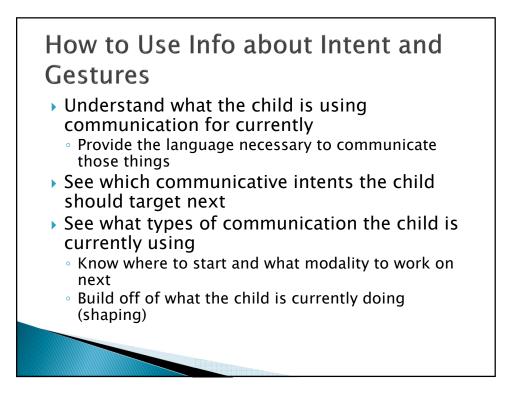


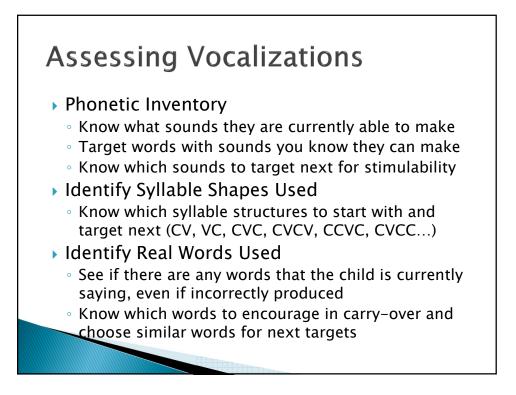
- Conduct with parent/caregiver as well as one with teacher if applicable
- Ask about:
 - How the child understands language
 - How the child communicates (behavior, gestures, language?)
 - The typical day in the life of the child
 - The most challenging times of the day for the child and/or family/classroom
 - Parent/caregiver/teacher expectations of evaluation and therapy

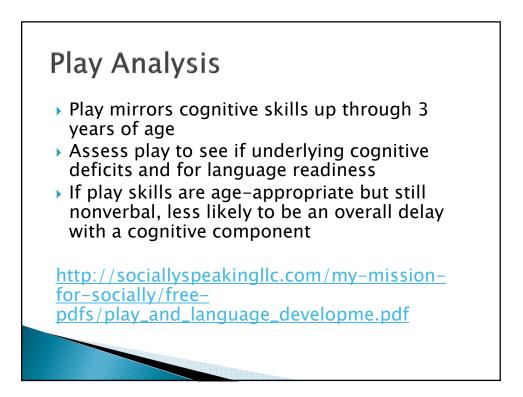


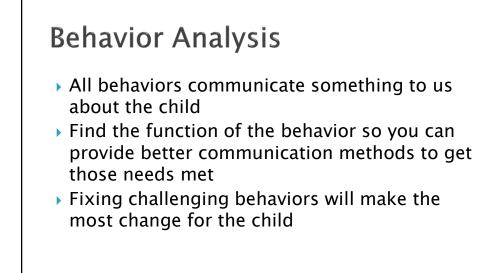


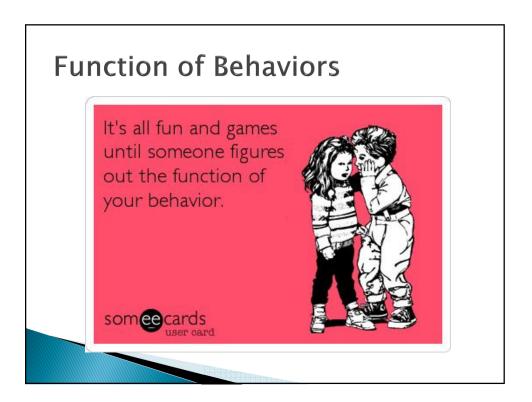


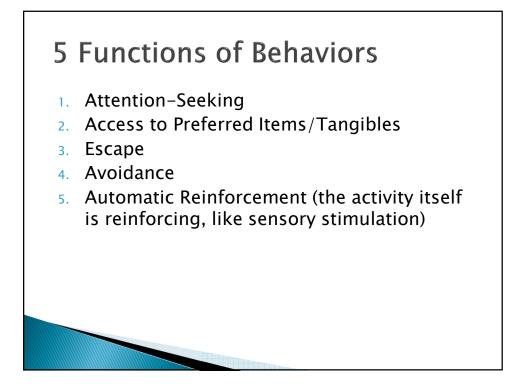


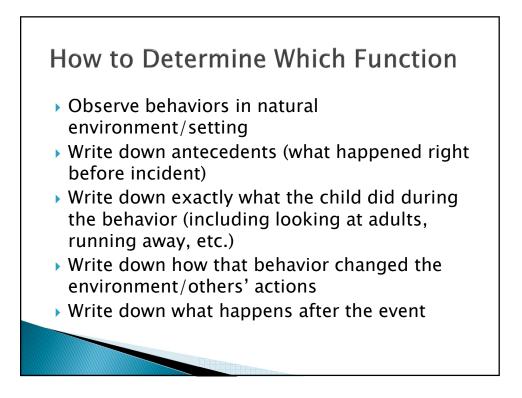






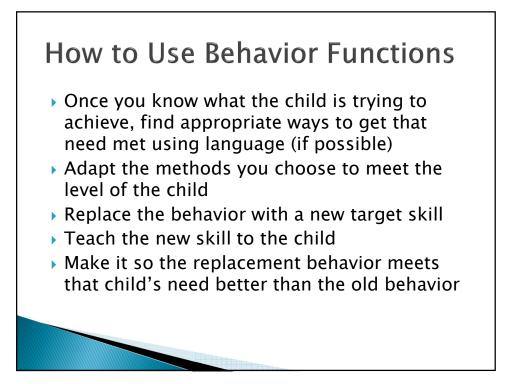








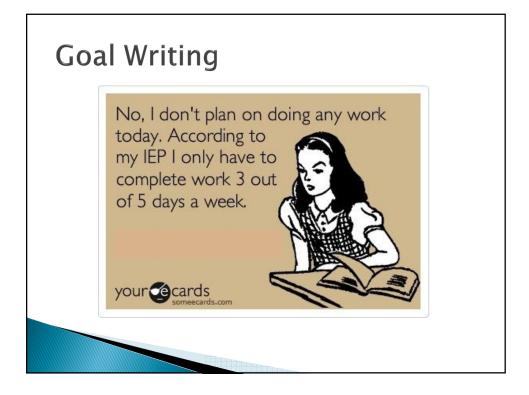
- Collect many incidents like this and look for patterns
- Look at what the functional outcome of the behavior was, did the adult give in? Did the child get attention from all of the other students? Did the activity end so he didn't have to do it?
- Identify which function best described each behavior (keep in mind each behavior may have a different function)



Choosing Goals for Nonverbal Children

- Identify areas to target and preferred communication modality
- Identify the biggest challenges
- Find replacement behaviors

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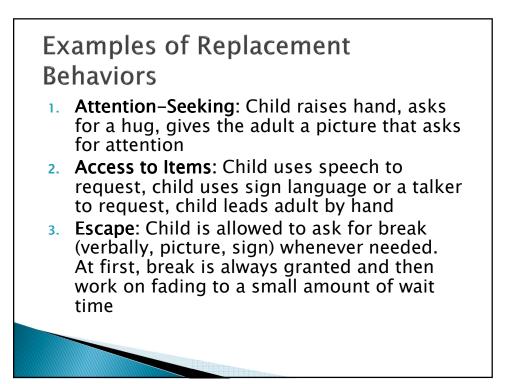




Goal Writing for Functional Communication

- Increase number of different intents that the child uses (greetings, requests, responses, etc.)
 Ex: Child will use greetings in the classroom...
- Increase complexity of the way the child communicates (go from gestures to sign)
- Provide replacement behaviors for inappropriate communication attempts

*Whenever possible, write goals with multiple communication modalities as options (sign, spoken, etc.) so you are not limited if the child starts using another method



Examples of Replacements

- Avoidance: Child is allowed to say "not right now" (verbally, picture, sign) whenever wanted. At first, child is always allowed out of activity until inappropriate behavior is extinguished. Then, fade to child doing one small part of task before being done.
- Automatic Reinforcement: May not be easily replaced with language. Try having the child ask for the sensory input he needs, like a hug or a trip to the sensory room

Goal Writing for a New Communication Modality

- If you are sure the child will be using a specific communication system, you may want to write a goal about the child's ability to use it
- Example: If an AAC device is used, you may want a goal for the child to navigate between pages or to push the "clear" button when a mistake is made.
- Make sure you know the child will be using this method for the foreseeable future

Example Goals for Nonverbal Children

- Johnny will respond to social greetings in the classroom by waving, saying hi, or using an alternative communication device on 4 of 5 observed opportunities.
- Johnny will use language to protest (using sign language, spoken language, or an AAC device) while refraining from screaming and/or throwing things on 4 of 5 observed opportunities.
- Johnny will isolate one finger to push a button on his AAC device on 4 of 5 observed opportunities (attempting to use the device) with no more than one reminder per activity as needed.



Therapy Activities for Nonverbal Children

- > Establish joint attention and engagement
- Introduce alternative communication means
- Improve imitation skills
- Replace maladaptive behaviors
- Parent/teacher training if possible

Establishing Joint Attention and Engagement

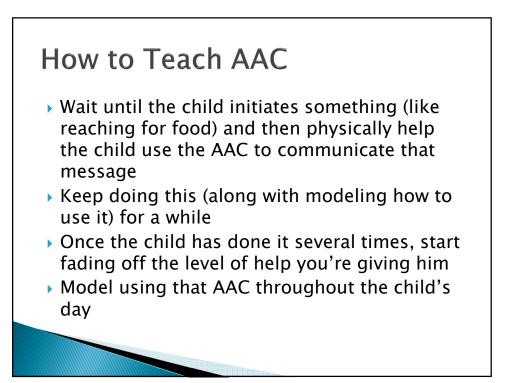
Reinforcer Probe:

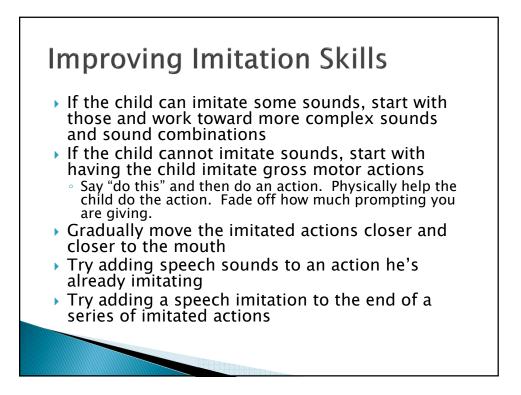
http://www.speechandlanguagekids.com/findmotivators-establish-joint-attention/ (12 min)

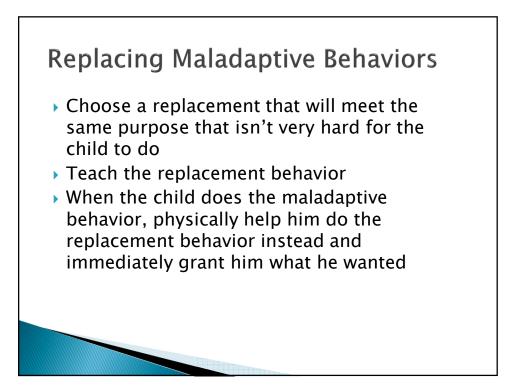
- Find highly motivating items and use those as incentive
- Work in the classroom and use what the child is already engaged in
- Wait until the child initiates something (like an inappropriate behavior) and shape that into the target skill

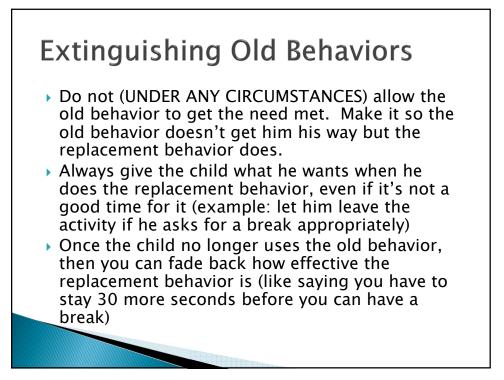
Introducing Alternative Communication Means

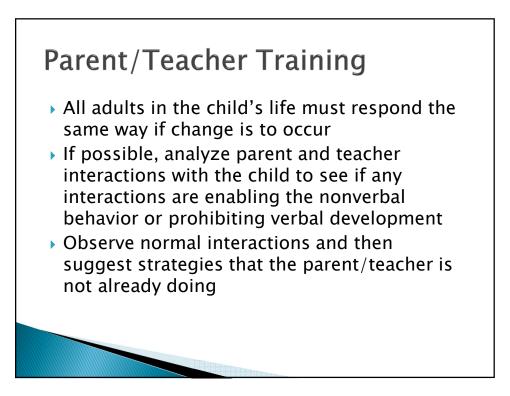
- Until speech catches up, need alternative way to teach the child to get wants and needs met
- Use different types of AAC around and with the child and see which one he responds to:
 - Gestures (if not using them yet)
 - Sign language
 - Picture board (pointing to pictures)
 - Picture exchange (like PECS)
 - Voice-output device
 - Dynamic-screen, voice-output device











Interaction Strategies to Look for and Teach

- Encouraging child communication by looking expectantly
- Responding to communication by reinforcing it with action and utterance
- > Talking at child's eye level
- Interpreting child's communication attempts
- Creating communicative opportunities by using sabotage or pause time
- Not anticipating child's needs ahead of time

<section-header> Interaction Strategies to Look for and Teach Reducing sentence length Reducing sentence complexity Repeating utterances often Paraphrasing utterances Using exaggerated intonation patterns Place stress on important words Use concrete high-frequency words Not using excessive questions or commands Using a slower speech rate

Interaction Strategies to Look for and Teach

Using Teaching Techniques

- Self Talk: talk about what you are doing/feeling
- Parallel Talk: talk about what the child is doing/feeling
- Expansion: Repeat back child's utterances and add one word, or say a word that represents the child's gestures or communication attempts
- Build Up/Break Down Sequences: "Ball. Mommy ball. Mommy throw ball. Throw ball. Ball."
- Recast Sentences: Rewording what was said