

ABA for SLPs

PYRAMID GLOBAL PARTNERS

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Disclosures

Jo-Anne Matteo Jill Waegenaere Catherine Horton Lori Frost

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Applied Behavior Analysis

"The process of systematically applying interventions based upon the principles of learning theory to improve socially significant behaviors to a meaningful degree and to demonstrate that the interventions employed are responsible for the improvement in behavior."

(Baer, Wolf and Risley, 1968; Sulzer-Azaroff & Mayer, 1991)

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Key Concepts of ABA

- Behavior is observable
- Behavior is measurable
- Behavior is related to the environment

 Things that happen before (antecedents)
 Things that happen after (consequences)



What Are the Issues?

- To date, ABA-based strategies have the most support as scientifically validated for ASD.
- The incidence of autism has risen dramatically. Virtually all learners with autism have deficits in the areas of speech, language, and communication.
- SLPs must be knowledgeable of ABA terms concepts in order to actively participate in team discussions and planning
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Our "Students"

- Student Characteristics
- · Which do we talk about at the end of the day?
- Which ones do we address first?



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What does "to learn" mean?

- Teaching involves manipulating the Antecedent events and the Consequence events in order to change behavior.
- Learning leads to a change in behavior:
 - o After a successful lesson, the student can do something he couldn't do before the lesson.

Goal = ALL students will learn new skills

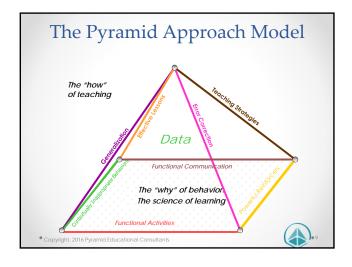


The Pyramid Approach to Education

Andy Bondy, PhD

- A systematic approach to designing teaching programs
- Based on a broad spectrum application of Applied Behavior Analysis (ABA)
- Blends motivational systems, functional activities, and creative communication training with the science of learning *The Pyramid Approach to Education (Bondy, 2010)





Functional Activities · Why do we have schools?

- - o To teach skills to
 - · Get a job

 - Live independently Teach versus "take care of"



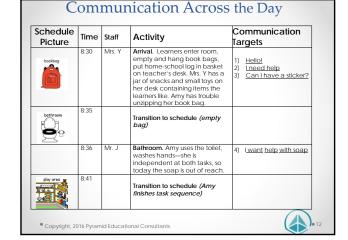
- o Skills necessary for independence
- o "A functional skill... is an action that will be performed by someone else if a person with disabilities does not perform it" Lou Brown, 1984
- What materials do we use?

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Why is this important for SLPs?

- If communication only occurs for 30-minutes per day, twice a week it is simply another activity scheduled into the day - not functional communication!
- Survey the day and assist the team to capture or create opportunities for communication







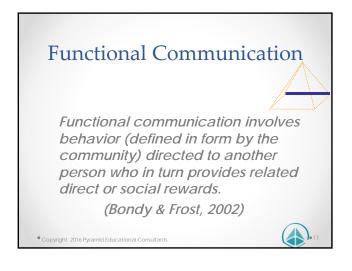
Let's Make a Deal What goes into a good deal? • Who picks the type of reinforcer? • Which comes first- R+ or demand? • Workers expect a VISUAL contract including: • How much R+ • How often do we get paid? • When do we get paid? (When's the next one?) • Can we re-negotiate the deal? • When do we get a vacation (or break)? • Copyright. 2016 Pyramid Educational Consultants

Why is this important for SLPs?

- SLPs first need to build rapport with students

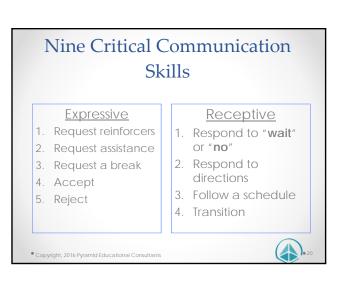
 best accomplished by pairing self with
 reinforcers
- To teach communication, start by having students ask for their favorite items
- Visual reinforcement systems can be used to increase motivation for other targeted skills (ex: receptive tasks, such as noun identification)

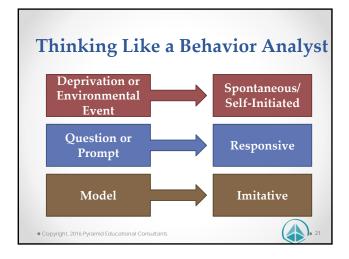


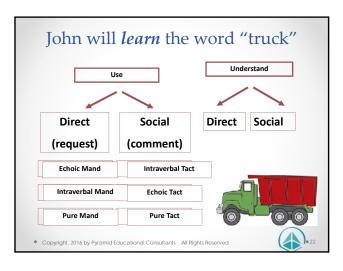


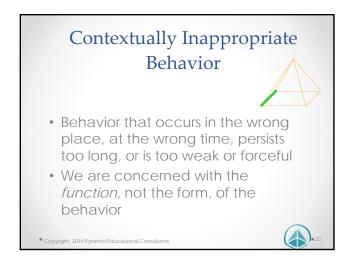














Pyramid Principles for Managing CIBs

- Systematically teach acceptable alternative behavior that serves the same function
- FEAB Functionally Equivalent Alternative Behavior

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CIBs and SLPs **Potential FEABs**

Function	FEAB
Gain Access to Reinforcement	Request reinforcer Indicate "yes"
Avoid/Escape	Indicate "no" Request break
Elicited	Respond to "wait" Follow schedule "Surprise"

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Why is this important for SLPs?

- Students engage in challenging behavior when they do not have the communication skills to meet the same function
- SLPs should assist the team in identifying the function of the CIB
- SLPs should lead the team in teaching the FEAB, as many of these replacements are communication skills



Generalization



- Two approaches to generalization
 - o Train skill to mastery then generalize
 - o Teach generalization from the beginning
- The Pyramid Approach involves planning for generalization from the beginning

Two types of generalization

- o Stimulus
- o Response



Why is this important for SLPs?

- Emily Rubin (2016) states, "Students with autism need access to communication and learning supports in all settings to help them understand social expectations, what others think and how to engage successfully with peers" (http://leader.pubs.asha.org/article.aspx?articleid=2527044)
- SLPs must consider their service delivery model to teach students to communicate in a variety of settings, with a variety of people for many different items/materials/activities

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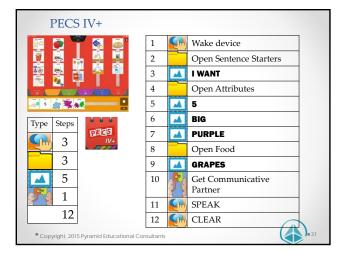
- Discrete trial format
 - o Short, repeatable behaviors
 - o Repetition is not always helpful!
 - o Example: Articulation Drills



- o Create task analysis: Determine steps that will be performed in a specific order
- o Backward chains vs. Forward chains
- o Example: Message Construction on SGD

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Effective Lessons

- Teacher-led lessons
 - o Can lead to prompt dependency
 - o Are standard in mainstream education
- Student-initiated
 - o Foster independence and spontaneity
 - o Necessary for success in "real world"



Why is this important for SLPs?

- SLPs should understand these terms, in order to speak the same language as behavior analysts
- SLPs should actively structure and guide teams to incorporate both teacher-led and student-initiated lessons

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Teaching Strategies



- Teaching a new skill involves "helping" the student to perform the new behavior
- The "help" we provide = prompt
- Prompt types include physical, verbal, gestural, visual...
- #1 Rule of Prompting If you put it in, you take it out!

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Teaching without Prompting-Shaping

- Why?
 - o If you don't use prompts, you don't have to remove them (no risk of prompt dependency)
- · How?
 - o Change the criterion for success (reinforcement)
 - o Small changes add up to big changes over time
 - Guess at the size of the change and then see if it works
- Do not combine with prompting

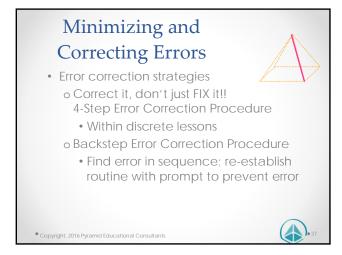
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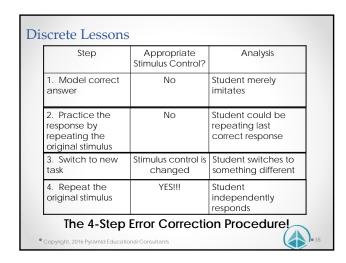


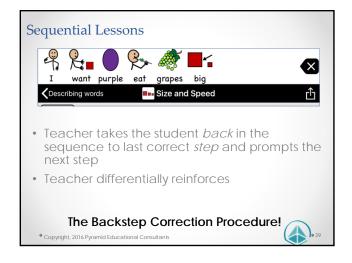
Why is this important for SLPs?

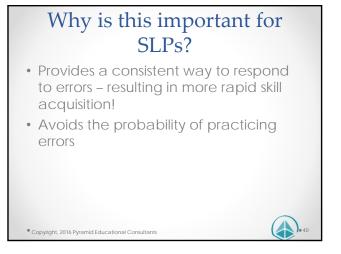
- Prompt dependency is common among learners with Complex Communication Needs – we must consider this issue when planning our communication lessons
- We can use shaping for articulation training and other lessons!











Data Collection and Analysis

- Purpose of data collection
 - o To determine if the lesson is effective
 - o To determine what changes to make
- Collect more data early and less later
- Type of data should relate to goal
- Analyze and summarize for trends

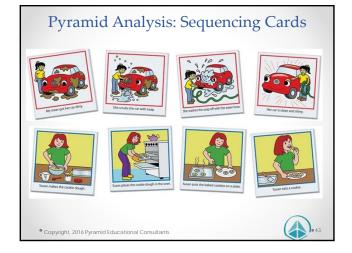
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Why is this important for SLPs?

- We must document that our students are making progress.
- If no progress, use the Pyramid as your problem-solving tool





Bottom Element of Pyramid	Analysis
Functional Activity	Is this lesson meaningful from the student's perspective?
Reinforcement	What type and when?
Functional Communication	What expressive or receptive skills should also be incorporated into this lesson?
Contextually Inappropriate Behavior	Are there challenging behaviors that are interfering? If so, what is the function?

