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# PaTTAN's Mission

The mission of the Pennsylvania Training and Technical Assistance Network (PaTTAN) is to support the efforts and initiatives of the Bureau of Special Education, and to build the capacity of local educational agencies to serve students who receive special education services.



### **Session Outline**

Mathematics learning is an intricate **web** of connected logical **ideas**. Accessing new content requires the ability to identify and verify the needed **prerequisite skills** and instruct students accordingly so there are no gaps in knowledge. In this session, participate will examine mathematical content, the necessary prerequisites, and determine how to access content contained with the PA Math Standards.

### **Objectives**

- Participants will be able to apply the concept of task analysis to structure verbal prompts and analyze error patterns
- Participants will understand the need to identify prerequisite skills for math topics
- Participants will be able to design an instruction sequence

# **Session Outline**

- 1. ABA stuff
- 2. Instructional Sequencing
- 3. Teaching Counting (me)
- 4. Teaching Early Computation (we)
- 5. Create your own Sequence! (you)











From this point on...

I am going to <u>simplify the ABA Vocabulary</u> so we can focus on the math.

You can still make connection/improvements if you have that level of background.







# Let's Teach Counting One-to-one - Counting one "thing" at a time; transfer from uncounted group to counted group (1: 1 Correspondance) Cardinal - The last count represent the quantity in the counted group (Cardinality) Stable-order - Establishes consistent sequence Abstraction - applying counting to like objects, actions, sounds, etc... order-irrelevance - Can count in any order





"Concept Matrix"							
		Student (behavior)					
		digit	verbal	text	dice	10-frame	
<u>Teacher</u> (antecedent)	digit	MtS (Trans.)	Tact	MtS (Trans.)	MtS	MtS	
	verbal	Tact	Echoic	Tact	Tact	Tact	
	text	MtS	Tact (Textual)	MtS	MtS	MtS	
	dice	MtS	Tact	MtS	MtS		
	10-frame	MtS	Tact	MtS		MtS	













# Our plan... In teams.... - Outline procedures - List Prerequisites - Share/Feedback - Refine - Develop Matrix Gallery Walk... - 3-5 minutes - Add sticky notes with questions/suggestions - Snap a picture Each group will address sticky notes.

# The Content

Place Value Concepts Number Lines Addition Algorithm Subtracting Single-Digit #'s Subtraction Algorithm Multiplying Single-Digit #'s Dividing Single-Digit #'s Understanding Fractions as Numbers Adding Fractions **Dealer's Choice!** 

