Foundational & Data-Based Interventions

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Objectives

1. Discuss the history & influence of ABA related to the development of systematic instruction
2. Identify and define the basic principles of ABA
    a. Define the *law of effect*
    b. Define *learning* in behavioral terms
3. Describe the key elements of systematic instruction
4. Describe the implementation of data-based systematic instruction

What is *systematic instruction*?

Why is it the recommended intervention approach for infants & young children with significant developmental disabilities?

Brief History of Systematic Instruction

- <1970s: Non-contingent sensory stimulation; *sensory integration*

Education for All Handicapped Children Act (EHA) of 1975

- 1970s
  - Contingency Learning in Infants
  - Infant-Toddler Intervention Project (Peabody/Vanderbilt)
  - Model Preschool Program for Children with Down Syndrome; Teaching your Down Syndrome Infant (UW)
  - Data-Based Decision Making (UW)
  - ABA; Language Intervention Program; Incidental Teaching (KU)

Brief History of Systematic Instruction, cont.

1980s

- Massed-trial format v. distributed trial format
  - Massed trials = DTT
  - Distributed trials = Embedded instruction (embedded learning opportunities)
- Generalization procedures
- General-case instruction
- Milieu teaching

1990s - present

- Focus on “What” we teach and “Where” we teach it; Continued emphasis on systematic, data-based instruction

Systematic Instruction & ABA

Systematic Instruction Term	ABA Term
Instructional Objective	
Instructional Procedure	
Prompt	
Target Response	
Correction Procedure	

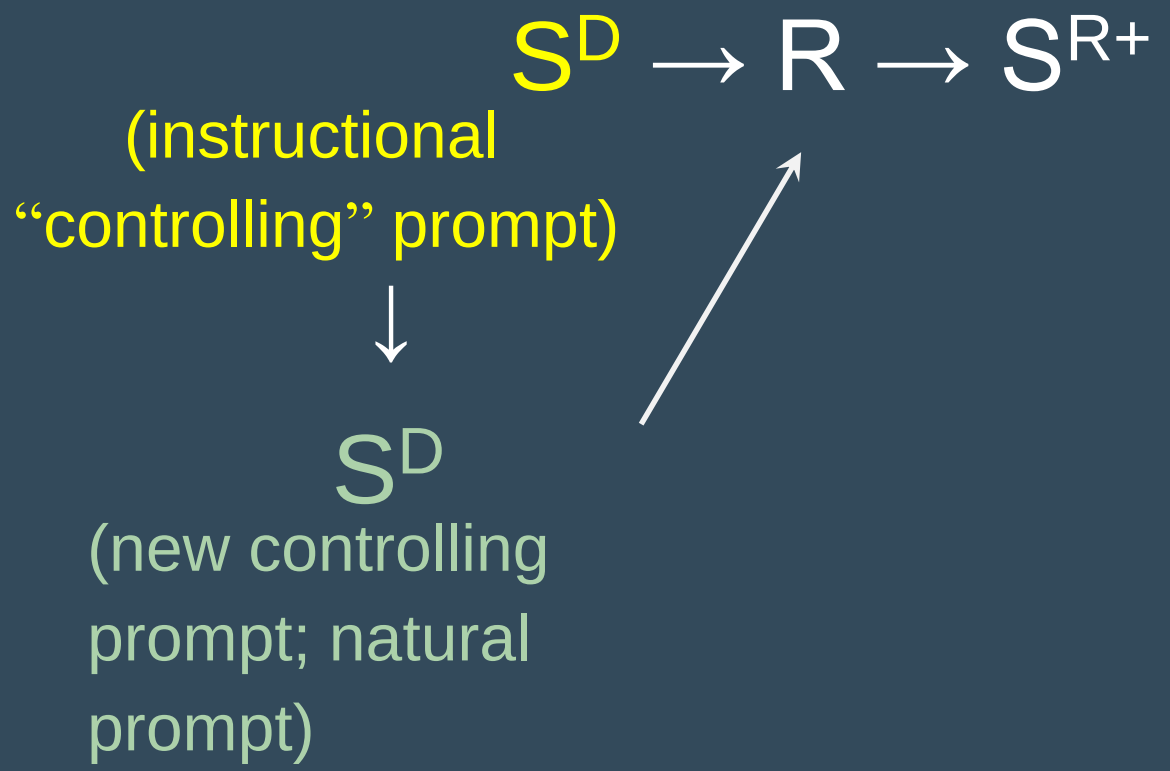
What should early interventionists/early childhood special educators know about ABA?

Summary of Key Principles of Behavior

EFFECT ON BEHAVIOR	EFFECT PRODUCED BY CONTINGENT	
	PRESENTATION OF A STIMULUS +	REMOVAL OF A STIMULUS -
INCREASE		
DECREASE		

Stimulus Control

Behavioral (ABA) Learning Paradigm:



Instructional Plan

Student: _____ Program Name: _____

Teacher: _____ Start Date: _____ Review Date: _____

Instructional Objective:

_____

_____

Data Collection Procedure: _____

_____

Antecedents	Student Response	Consequences
Occasions/Situations for Instruction: Motivational Procedures: Teaching Procedures: Generalization Probes:		For Correct Response: Reinforcement: Instructional: For Incorrect Response:

What is *data-based* systematic instruction? And why should we prepare our interventionists/ECSE teachers to do it?

Making Data-Based Instructional Decisions

- How often should data be collected? And what should we do with the data?
- What types of decisions can we make about instructional plans?
- What do different patterns of data suggest for decision-making?
- How should we make instructional decisions so that we maintain the *systematic* in systematic instruction?

Moving Beyond Basic Principles

- Promoting generalization
  - Generalization strategies
  - Targeting generalized skills
- Teaching in natural contexts
  - Embedded instruction/Embedded learning opportunities
  - Milieu Teaching
- Increasing motivation
- Adaptations and modifications, including AT