

Fabrizio/Moors
CONSULTING


Developing Instructional Sequences for Teaching Basic Motor Skills

Michael A. Fabrizio, M.A., BCBA
Fabrizio/Moors Consulting

**“Stand on my shoulders as I stood on Fred Skinner’s shoulders.
You see more big things from up here and you see further.”**

in very loving memory of
Ogden R. Lindsley

Thank you, Og!




Fabrizio/Moors
CONSULTING

On Instructional content analysis...

- goal
 - categorize skills kids need to learn into functional groups with
 - clearly defined common conditions that facilitate each type of skill
 - clearly defined classes of consequences that maintain each type of skill
- helps ensure instruction designed matches with important goals of instruction

Fabrizio/Moors
CONSULTING

Benefits of Front End Instructional content analysis...

- Helps with outcome selection
- Allows instructional procedures and objective type coordination
- Facilitates evaluation and content match

Fabrizio/Moors
CONSULTING

Two Features of Instruction...

- Controlled features
- Variable features

Fabrizio/Moors CONSULTING

Two Features of Instruction...

- Controlled features
 - Those aspects of the instructional arrangement that you will systematically manipulate
 - Usually related to dimensions of human behavior and/or arranged instructional events
 - Phases
 - Slices
- Variable features

Fabrizio/Moors CONSULTING

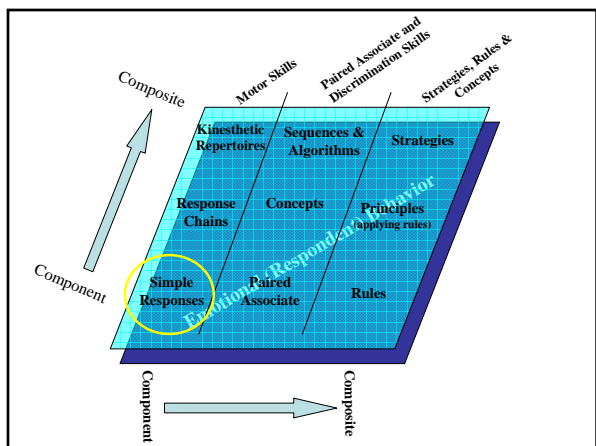
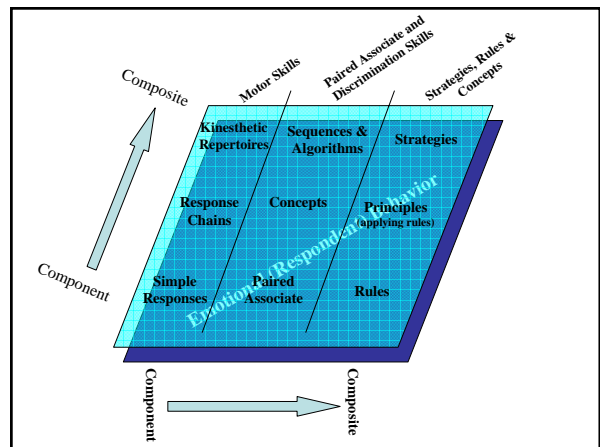
Two Features of Instruction...

- Controlled features
- Variable features
 - Those aspects of the instruction that will vary freely right from the start

Fabrizio/Moors CONSULTING

The process...

- Choose a skill
- Identify the controlled & variable features
- Identify the gradient limits of the controlled features
- Identify phases (slices)



**The Big 6+6 :
Elements of Motor Skills**

• Reach	• Push
• Point	• Pull
• Touch	• Squeeze
• Grasp	• Tap
• Place	• Twist
• Release	• Shake

“Behavioral atoms”

- Dr. Eric Haughton

Fabrizio/Moors CONSULTING The process...

- **Choose a skill**
- Identify the controlled & variable features
- Identify the gradient limits of the controlled features
- Identify phases (slices)

Fabrizio/Moors CONSULTING An example...

- Reach

Fabrizio/Moors CONSULTING The process...

- Choose a skill
- **Identify the controlled & variable features**
- Identify the gradient limits of the controlled features
- Identify phases (slices)

Fabrizio/Moors CONSULTING An example...

- Reach
 - Controlled features
 - Extensity
 - Topography
 - Duration
 - Variable features
 - Item reached for
 - Direction of movement

Fabrizio/Moors CONSULTING The process...

- Choose a skill
- Identify the controlled & variable features
- **Identify the gradient limits of the controlled features**
- Identify phases (slices)

Fabrizio/Moors CONSULTING An example...

- Reach
 - Controlled features
 - Extensity
 - Near
 - Far
 - Topography
 - Horizontal plane
 - Vertical plane
 - Depth change
 - Duration
 - Short
 - Long
 - Variable features
 - Item reached for
 - Direction of movement

Fabrizio/Moors CONSULTING An example...

- Reach
 - Controlled features
 - 1. Extensity
 - A. Near
 - B. Far
 - 2. Topography
 - A. Horizontal plane
 - B. Vertical plane
 - C. Depth change
 - 3. Duration
 - A. Short
 - B. Long
 - Variable features
 - Item reached for
 - Direction of movement

Fabrizio/Moors CONSULTING The process...

- Choose a skill
- Identify the controlled & variable features
- Identify the gradient limits of the controlled features
- **Identify phases (slices)**

Fabrizio/Moors CONSULTING An example...

- Reach
 - Controlled features
 - 1. Extensity
 - A. Near
 - B. Far
 - 2. Topography
 - A. Horizontal plane
 - B. Vertical plane
 - C. Depth change
 - 3. Duration
 - A. Short
 - B. Long
 - Variable features
 - Item reached for
 - Direction of movement
- Slice Sequence:
 - Slice 1: 1A2A3A
 - Slice 2: 1B2A3A
 - Slice 3: 1B2B3A
 - Slice 4: 1B2C3A
 - Slice 5: 1B2C3B

Fabrizio/Moors CONSULTING Another example...

Fabrizio/Moors CONSULTING The process...

- **Choose a skill**
- Identify the controlled & variable features
- Identify the gradient limits of the controlled features
- Identify phases (slices)

Fabrizio/Moors CONSULTING Pinch

- Pinch

Fabrizio/Moors CONSULTING The process...

- Choose a skill
- **Identify the controlled & variable features**
- Identify the gradient limits of the controlled features
- Identify phases (slices)

Fabrizio/Moors CONSULTING Pinch

- Pinch
 - Controlled features
 - Intensity
 - Duration
 - Extensity
 - Reinforcement schedule
 - Variable features
 - Item pinched

Fabrizio/Moors CONSULTING The process...

- Choose a skill
- Identify the controlled & variable features
- **Identify the gradient limits of the controlled features**
- Identify phases (slices)

Fabrizio/Moors CONSULTING Pinch

- Pinch
 - Controlled features
 - Intensity
 - Low (little resistance)
 - High (lots of resistance)
 - Duration
 - Short
 - Long
 - Extensity
 - Tiny pinch
 - Big pinch
 - Reinforcement schedule
 - FR1
 - FR3
 - VR3
 - DRH
 - Variable features
 - Item pinched

Fabrizio/Moors CONSULTING The process...

- Choose a skill
- Identify the controlled & variable features
- Identify the gradient limits of the controlled features
- **Identify phases (slices)**

Fabrizio/Moors CONSULTING Pinch

- Pinch
 - Controlled features
 - 1. Intensity
 - A. Low (little resistance)
 - B. High (lots of resistance)
 - 2. Duration
 - A. Short
 - B. Long
 - 3. Extensity
 - A. Tiny pinch
 - B. Big pinch
 - 4. Reinforcement schedule
 - A. FR1
 - B. FR3
 - C. VR3
 - D. DRH
 - Variable features
 - Item pinched
- Slice Sequence:
 - Slice 1: 1A2A3A4A
 - Slice 2: 1A2A3A4B
 - Slice 3: 1A2A3A4C
 - Slice 4: 1A2A3A4D
 - Slice 5: 1A2B3A4D
 - Slice 6: 1A2B3B4D
 - Slice 7: 1B2B3B4D

