

Misconception/Error	Suggested Intervention
Lack of Prior Knowledge	<ul style="list-style-type: none"> ● Have students work with the following: <ul style="list-style-type: none"> ○ Colors ○ Shapes ○ Left-to-right directionality ○ One-to-one correspondence ○ Letters ● Work on sorting concrete objects according to similar and different attributes ● Read stories that contain patterns and explicitly discuss the patterns ● Incorporate pattern identification into Calendar time ● Use a variety of manipulatives to create different patterns
Misunderstanding of Vocabulary	<ul style="list-style-type: none"> ● Refer student to mathematics word wall cards (VDOE) ● Illustrate vocabulary/non-linguistic representations ● Use same vocabulary in different context ● Examples and non-examples ● Identify patterns and vocabulary in cross-curricular studies ● Sentence strips
Determining the Core	<ul style="list-style-type: none"> ● Check for vocabulary misconceptions ● “Chunk” the pattern for core (ABB/ABB/ABB/ABB) ● Use simpler patterns (concretely, pictorially, and symbolically) ● Model patterns and use teacher “think aloud” ● Highlight the core of increasing complex patterns ● Students can stack the pattern in a vertical manner
Unable to Extend the Pattern	<ul style="list-style-type: none"> ● Have students start with a simple AB pattern ● Verbalize the patterns by having students read the pattern out loud ● Extend the pattern by one (What comes next?, How do you

Misconception/Error	Suggested Intervention
<p>Misunderstanding with Transferring or Creating a New Pattern</p>	<p>know?)</p> <ul style="list-style-type: none"> • Practice auditory and kinesthetic patterns • Assign letters to the pattern • Model creating multiple examples of patterns using color, shapes, symbols, etc... • Apply to real life and patterns in nature • Have students compare and contrast patterns • Determine if students can create a pattern without an example • Create anchor charts for patterns • Highlight different patterns have different cores • Sort patterns • Have students use a variety of objects when creating patterns • Have students change only “one attribute” when creating a new pattern • Provide various manipulatives • Have students sort in a way other than color • Discuss attributes of patterns