

MAP for Primary Grades Instructional Data: Mathematics Algebra

Skills: Attributes, Patterns and Functions – Repeating Patterns

Students:	Primary Grades Instructional Data Skills: (Highlight the skills related to your chosen standard/concept)	
	<p>RIT 181-190:</p> <p>184 Interprets a pattern (repeating; different rule, same objects; manipulatives shown; geometric shapes)</p> <p>184 Interprets a pattern (repeating; different rule, same objects; manipulatives shown; real-world objects)</p> <p>183 Extends a pattern (repeating; ABCDE; nth object; manipulatives shown; real-world objects)</p>	<p>RIT 151-160:</p> <p>160 Illustrates the repeating portion of a pattern (ABCC; numerals shown)</p> <p>160 Interprets a pattern (repeating; same rule, different letters; AAAB; using letters)</p> <p>159 Extends a pattern (repeating; AAB; real-world object; next three objects)</p> <p>159 Extends a pattern (repeating; AB; next two objects; manipulatives shown; geometric shapes)</p> <p>159 Extends a pattern (repeating; ABB; next three numbers; letters shown)</p> <p>155 Illustrates the repeating portion of a pattern (AAB; manipulatives shown; geometric shapes)</p> <p>151 Extends a pattern (repeating; AB; next two objects; numerals shown)</p>
	<p>RIT 171-180:</p> <p>180 Extends a pattern (repeating; ABCDE; nth object; manipulatives shown; geometric shapes)</p> <p>179 Extends a pattern (repeating; AABB; next five objects; manipulatives shown; geometric shapes)</p> <p>177 Illustrates a pattern using a given rule (repeating; ABBC; manipulatives shown; real-world objects)</p> <p>176 Illustrates a pattern using a given rule (repeating; ABC; manipulatives shown; geometric shapes)</p> <p>176 Illustrates the repeating portion of a pattern (AB; manipulatives shown; geometric shapes)</p> <p>176 Interprets a pattern (repeating; same rule, different objects; ABCC; manipulatives shown; geometric shapes)</p> <p>174 Interprets a pattern (repeating; same rule, different objects; AAABBC; manipulatives shown; real-world objects)</p> <p>172 Interprets a pattern (repeating; same rule, different objects; ABB; manipulatives shown; real-world objects; geometric shapes)</p> <p>171 Extends a pattern (repeating; ABC; next two objects; manipulatives shown; geometric shapes)</p>	<p>RIT 141-150:</p> <p>149 Extends a pattern (repeating; AABC; next four objects; using real-world objects)</p> <p>149 Extends a pattern (repeating; AABC; next object; manipulatives shown; geometric shapes)</p> <p>146 Infers a rule for a pattern (repeating; ABC; manipulatives shown; geometric shapes)</p> <p>144 Illustrates the repeating portion of a pattern (AB; manipulatives shown; letters shown)</p> <p>142 Extends a pattern (repeating; AB; next object; manipulatives shown; geometric shapes)</p> <p>141 Extends pattern (repeating; AB; next three objects; manipulatives shown; geometric shapes)</p>
	<p>RIT 161-170:</p> <p>169 Extends a pattern (repeating; AB; next six objects; manipulatives shown; geometric shapes)</p> <p>168 Extends a pattern (repeating; ABCD; next object; manipulatives shown; geometric shapes)</p> <p>165 Interprets a pattern (repeating; same rule, different objects; AAB; manipulatives shown; real-world objects)</p> <p>162 Extends a pattern (repeating; ABC; next three numbers; numerals shown)</p> <p>162 Illustrates a pattern using a given rule (repeating; AAB; manipulatives shown; real-world objects)</p> <p>162 Illustrates the repeating portion of a pattern (AAAB; manipulatives shown; geometric shapes)</p> <p>162 Illustrates the repeating portion of a pattern (ABC; manipulatives shown; geometric shapes)</p> <p>161 Interprets a pattern (repeating; same rule, different objects; AAB; manipulatives shown; geometric shapes)</p>	<p>RIT 131-140:</p> <p>140 Extends a pattern (repeating; AAB; next object; manipulatives shown; geometric shapes)</p>
		<p>RIT 111-130:</p> <p>119 Extends a pattern (repeating; AB; next object; manipulatives shown; real-world objects)</p>

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Skills: Attributes, Patterns and Functions – Repeating Patterns

Lesson Title: Blocks and Puzzle Patterns

Standard/Concept for All:

- K.M.3.4.1 Replicate and extend simple repeating patterns (e.g., ABAB).
- 1.M.3.4.1 Describe and extend a repeating pattern (e.g., ABACABAC).
- 2.M.3.4.1 Translate a repeating pattern from one representation to another (e.g., even, odd, even, odd translates to ABAB).

For Students Ready for a Challenge:

Lesson/Activity:

Patterns: ABB, AAABBC, ABBC, ABCDE

- Working with individual students or in small groups, demonstrate patterns using colored blocks, candies or other solid-colored objects. Start a pattern and have students complete it. Repeat with other patterns, each more than once as time allows and based on students' need.
- Assign students to complete the pattern puzzles individually or with a partner.

Resources:

- Solid color objects such as blocks, balls, or candies
- Level 3 Pattern Puzzles

Means of Assessment:

Observation – correctly completed patterns

For Most Students:

Lesson/Activity:

Patterns: AAAB, ABCC, ABCD, ABAC

- Same as above

Resources:

- Solid color objects such as blocks, balls, or candies
- Level 2 Pattern Puzzles

Means of Assessment:

Observation – correctly completed patterns

For Students Needing Extra Support:

Lesson/Activity:

Patterns: AB, AAB, AABC

- Same as above

Resources:

- Solid color objects such as blocks, balls, or candies
- Level 1 Pattern Puzzles

Means of Assessment:

Observation – correctly completed patterns

Closure/Summary for All:

- Give students a more challenging pattern to complete as a class.