

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

Note: Codes to curriculum are for cross-referencing purposes only.

### Ontario

Curriculum Expectations	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>Overall Expectation</b> <b>P1 Patterns and Relationships:</b> identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns <b>Cross Strand:</b> Number <b>N3 Operational Sense:</b> solve problems involving the addition and subtraction of one- and two-digit whole numbers, using a variety of strategies, and investigate multiplication and division.			
<p><b>P1.1</b> identify and describe, through investigation, growing patterns and shrinking patterns generated by the repeated addition or subtraction of 1's, 2's, 5's, 10's, and 25's on a number line and on a hundreds chart</p> <p><b>P1.2</b> identify, describe, and create, through investigation, growing patterns and shrinking patterns involving addition and subtraction, with and without the use of calculators</p> <p><b>P1.3</b> identify repeating, growing, and shrinking patterns found in real-life contexts</p>	<p><b>Below Grade: Intervention</b></p> <p>3: Skip-Counting</p> <p>4: Repeated Addition and Subtraction</p> <p><b>On Grade: Teacher Cards</b></p> <p>6: Increasing Patterns 1 (P1.2, P1.7)</p> <p>7: Increasing Patterns 2 (P1.2, P1.4, P1.7)</p> <p>8: Decreasing Patterns (P1.2, P1.4, P1.7)</p> <p>9: Extending Patterns (P1.2, P1.7)</p> <p>10: Reproducing Patterns (P1.4)</p> <p>11: Creating Patterns (P1.2, P1.3, P1.5, P1.7)</p> <p>12: Errors and Missing Terms (P1.2, P1.5, N3.1)</p> <p>13: Solving Problems (P1.2, P1.3, P1.4, N3.1)</p> <p>14: Increasing/Decreasing Patterns Consolidation (P1.2, P1.3, P1.4, P1.5, P1.7)</p>	<p><b>On Grade:</b></p> <ul style="list-style-type: none"> <li>The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <p><b>Above Grade:</b></p> <ul style="list-style-type: none"> <li>Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<p><b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b></p> <p><b>Representing and Generalizing Increasing/Decreasing Patterns</b></p> <ul style="list-style-type: none"> <li>Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul> <p><b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b></p> <p><b>Developing Fluency of Addition and Subtraction Computation</b></p>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

## Ontario (continued)

<p><b>P1.4</b> represent a given growing or shrinking pattern in a variety of ways</p> <p><b>P1.5</b> create growing or shrinking patterns</p> <p><b>P1.7</b> demonstrate, through investigation, an understanding that a pattern results from repeating an operation (e.g., addition, subtraction) or making a repeated change to an attribute (e.g., colour, orientation).</p> <p><b>N3.1</b> solve problems involving the addition and subtraction of whole numbers to 18, using a variety of mental strategies</p>	<p><b>On Grade: Math Every Day</b></p> <p><b>Card 2A:</b> How Many Can We Make? (P1.1, P1.2, P1.5, P1.7) Error Hunt (P1.2, P1.7)</p> <p><b>Card 2B:</b> Making Increasing Patterns (P1.2, P1.7) Making Decreasing Patterns (P1.2, P1.7)</p>		<p>- Fluently adds and subtracts with quantities to 20. (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)</p>
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# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

Note: Codes to curriculum are for cross-referencing purposes only.

### British Columbia/Yukon Territories

Learning Standards	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>Big Idea</b> The regular change in increasing patterns can be identified and used to make generalizations. <b>Cross Strand: Number</b> Development of computational fluency in addition and subtraction with numbers to 100 requires an understanding of place value.			
<b>P1 Repeating and increasing patterns</b> <ul style="list-style-type: none"> <li><b>P1.3</b> increasing patterns using manipulatives, sounds, actions, and numbers (0 to 100)</li> <li><b>P1.4</b> Métis finger weaving</li> <li><b>P1.5</b> First Peoples head/armband patterning</li> </ul> <b>N3 Addition and subtraction facts to 20</b> <ul style="list-style-type: none"> <li><b>N3.1</b> adding and subtracting numbers to 20</li> </ul>	<b>Below Grade: Intervention</b> 3: Skip-Counting 4: Repeated Addition and Subtraction  <b>On Grade: Teacher Cards</b> 6: Increasing Patterns 1 (P1.3, N3.1) 7: Increasing Patterns 2 (P1.3, N3.1) 8: Decreasing Patterns (not required by your curriculum) 9: Extending Patterns (P1.3, N3.1) 10: Reproducing Patterns (P1.3, N3.1) 11: Creating Patterns (P1.3, N3.1) 12: Errors and Missing Terms (P1.3, N3.1) 13: Solving Problems (P1.3, P1.4, P1.5, N3.1) 14: Increasing/Decreasing Patterns Consolidation (P1.3, N3.1)	<b>On Grade:</b> <ul style="list-style-type: none"> <li>The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <b>Above Grade:</b> <ul style="list-style-type: none"> <li>Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b> <b>Representing and Generalizing Increasing/Decreasing Patterns</b> <ul style="list-style-type: none"> <li>Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

### British Columbia/Yukon Territories (continued)

	<b>On Grade: Math Every Day</b> <b>Card 2A:</b> How Many Can We Make? (P1.3, N3.1) Error Hunt (P1.3, N3.1) <b>Card 2B:</b> Making Increasing Patterns (P1.3, N3.1) Making Decreasing Patterns (not required by your curriculum)		<b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b> <b>Developing Fluency of Addition and Subtraction Computation</b> - Fluently adds and subtracts with quantities to 20. (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)
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# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

New Brunswick/Prince Edward Island/Newfoundland and Labrador

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>General Outcome</b> <b>Patterns and Relations:</b> Use patterns to describe the world and solve problems. <b>Cross Strand</b> <b>Number:</b> Develop number sense.			
<b>PR2</b> Demonstrate an understanding of increasing patterns by: <ul style="list-style-type: none"> <li>describing</li> <li>extending</li> <li>comparing</li> <li>creating patterns using manipulatives, diagrams, sounds and actions</li> </ul> <b>N10</b> Apply mental mathematics strategies to determine basic addition facts to 18 and related subtraction facts	<b>Below Grade: Intervention</b> 3: Skip-Counting 4: Repeated Addition and Subtraction  <b>On Grade: Teacher Cards</b> 6: Increasing Patterns 1 (PR2, N10) 7: Increasing Patterns 2 (PR2, N10) 8: Decreasing Patterns (not required by your curriculum) 9: Extending Patterns (PR2, N10) 10: Reproducing Patterns (PR2, N10) 11: Creating Patterns (PR2, N10) 12: Errors and Missing Terms (PR2, N10) 13: Solving Problems (PR2, N10) 14: Increasing/Decreasing Patterns Consolidation (PR2, N10)  <b>On Grade: Math Every Day Card 2A:</b> How Many Can We Make? (PR2, N10) Error Hunt (PR2, N10) <b>Card 2B:</b> Making Increasing Patterns (PR2, N10) Making Decreasing Patterns (not required by your curriculum)	<b>On Grade:</b> <ul style="list-style-type: none"> <li>The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <b>Above Grade:</b> <ul style="list-style-type: none"> <li>Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b>  <b>Representing and Generalizing Increasing/Decreasing Patterns</b> <ul style="list-style-type: none"> <li>Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul> <b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b>  <b>Developing Fluency of Addition and Subtraction Computation</b> <ul style="list-style-type: none"> <li>Fluently adds and subtracts with quantities to 20. (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)</li> </ul>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

### Manitoba

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>General Outcome</b> <b>Patterns and Relations:</b> Use patterns to describe the world and solve problems. <b>Cross Strand</b> <b>Number:</b> Develop number sense.			
<b>2.PR.2</b> Demonstrate an understanding of increasing patterns by: <ul style="list-style-type: none"> <li>describing</li> <li>reproducing</li> <li>extending</li> <li>creating patterns using manipulatives, diagrams, sounds, and actions (numbers to 100)</li> </ul>	<b>Below Grade: Intervention</b> 3: Skip-Counting 4: Repeated Addition and Subtraction  <b>On Grade: Teacher Cards</b> 6: Increasing Patterns 1 (2.PR.2) 7: Increasing Patterns 2 (2.PR.2) 8: Decreasing Patterns (not required by your curriculum) 9: Extending Patterns (2.PR.2) 10: Reproducing Patterns (2.PR.2) 11: Creating Patterns (2.PR.2) 12: Errors and Missing Terms (2.PR.2) 13: Solving Problems (2.PR.2) 14: Increasing/Decreasing Patterns Consolidation (2.PR.2)  <b>On Grade: Math Every Day Card 2A:</b> How Many Can We Make? (2.PR.2) Error Hunt (2.PR.2) <b>Card 2B:</b> Making Increasing Patterns (2.PR.2) Making Decreasing Patterns (not required by your curriculum)	<b>On Grade:</b> <ul style="list-style-type: none"> <li>The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <b>Above Grade:</b> <ul style="list-style-type: none"> <li>Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b>
			<b>Representing and Generalizing Increasing/Decreasing Patterns</b> <ul style="list-style-type: none"> <li>Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul>
			<b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b>
			<b>Developing Fluency of Addition and Subtraction Computation</b> <ul style="list-style-type: none"> <li>Fluently adds and subtracts with quantities to 20. (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)</li> </ul>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

## Nova Scotia

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>General Outcome</b> <b>Patterns and Relations:</b> Students will be expected to use patterns to describe the world and solve problems. <b>Cross Strand</b> <b>Number:</b> Students will be expected to develop number sense.			
<b>PR02</b> Students will be expected to demonstrate an understanding of increasing patterns by describing, extending, and creating numerical patterns (numbers to 100) and non-numerical patterns using manipulatives, diagrams, sounds, and actions.  <b>N10</b> Students will be expected to apply mental mathematics strategies to quickly recall basic addition facts to 18 and determine related subtraction facts.	<b>Below Grade: Intervention</b> 3: Skip-Counting 4: Repeated Addition and Subtraction  <b>On Grade: Teacher Cards</b> 6: Increasing Patterns 1 (PR02, N10) 7: Increasing Patterns 2 (PR02, N10) 8: Decreasing Patterns (not required by your curriculum) 9: Extending Patterns (PR02, N10) 10: Reproducing Patterns (PR02, N10) 11: Creating Patterns (PR02, N10) 12: Errors and Missing Terms (PR02, N10) 13: Solving Problems (PR02, N10) 14: Increasing/Decreasing Patterns Consolidation (PR02, N10)	<b>On Grade:</b> <ul style="list-style-type: none"> <li>The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <b>Above Grade:</b> <ul style="list-style-type: none"> <li>Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b>
			<b>Representing and Generalizing Increasing/Decreasing Patterns</b> <ul style="list-style-type: none"> <li>Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul>
			<b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b>
			<b>Developing Fluency of Addition and Subtraction Computation</b> <ul style="list-style-type: none"> <li>Fluently adds and subtracts with quantities to 20. (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)</li> </ul>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

Nova Scotia (continued)

	<b>On Grade: Math Every Day</b> <b>Card 2A:</b> How Many Can We Make? (PR02, N10) Error Hunt (PR02, N10) <b>Card 2B:</b> Making Increasing Patterns (PR02, N10) Making Decreasing Patterns (not required by your curriculum)		
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# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

Alberta/Northwest Territories/Nunavut

Learning Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>General Outcome</b> <b>Patterns and Relations:</b> Use patterns to describe the world and to solve problems. <b>Cross Strand</b> <b>Number:</b> Develop number sense.			
<b>Patterns and Relations</b> <b>2.</b> Demonstrate an understanding of increasing patterns by: <ul style="list-style-type: none"> <li>describing</li> <li>reproducing</li> <li>extending</li> <li>creating numerical (numbers to 100) and non-numerical patterns using manipulatives, diagrams, sounds and actions.</li> </ul> <b>Number</b> <b>10.</b> Apply mental mathematics strategies for basic addition facts and related subtraction facts to 18.	<b>Below Grade: Intervention</b> 3: Skip-Counting 4: Repeated Addition and Subtraction  <b>On Grade: Teacher Cards</b> 6: Increasing Patterns 1 (PR2, N10) 7: Increasing Patterns 2 (PR2, N10) 8: Decreasing Patterns (not required by your curriculum) 9: Extending Patterns (PR2, N10) 10: Reproducing Patterns (PR2, N10) 11: Creating Patterns (PR2, N10) 12: Errors and Missing Terms (PR2, N10) 13: Solving Problems (PR2, N10) 14: Increasing/Decreasing Patterns Consolidation (PR2, N10)  <b>On Grade: Math Every Day Card 2A:</b> How Many Can We Make? (PR2, N10) Error Hunt (PR2, N10) <b>Card 2B:</b> Making Increasing Patterns (PR2, N10) Making Decreasing Patterns (not required by your curriculum)	<b>On Grade:</b> <ul style="list-style-type: none"> <li>The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <b>Above Grade:</b> <ul style="list-style-type: none"> <li>Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b> <b>Representing and Generalizing Increasing/Decreasing Patterns</b> <ul style="list-style-type: none"> <li>Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul> <b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b> <b>Developing Fluency of Addition and Subtraction Computation</b> <ul style="list-style-type: none"> <li>Fluently adds and subtracts with quantities to 20. (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)</li> </ul>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

### Saskatchewan

Specific Outcomes	Mathology Grade 2 Classroom Activity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
<b>Goals</b> Number Sense, Logical Thinking, Spatial Sense, Mathematics as a Human Endeavour <b>Cross Strand: Number</b>			
<b>Patterns and Relations</b> <b>P2.2</b> Demonstrate understanding of increasing patterns by: <ul style="list-style-type: none"> <li>• <b>P2.2a</b> describing</li> <li>• <b>P2.2b</b> reproducing</li> <li>• <b>P2.2c</b> extending</li> <li>• <b>P2.2d</b> creating patterns using manipulatives, pictures, sounds, and actions (numbers to 100).</li> </ul> <b>Number</b> <b>N2.2</b> Demonstrate understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by: <ul style="list-style-type: none"> <li>• <b>N2.2a</b> representing strategies for adding and subtracting concretely, pictorially, and symbolically</li> </ul>	<b>Below Grade: Intervention</b> 3: Skip-Counting 4: Repeated Addition and Subtraction  <b>On Grade: Teacher Cards</b> 6: Increasing Patterns 1 (P2.2a, P2.2b, P2.2c, N2.2a, N2.2d) 7: Increasing Patterns 2 (P2.2a, P2.2b, P2.2c, N2.2a, N2.2d) 8: Decreasing Patterns (not required by your curriculum) 9: Extending Patterns (P2.2a, P2.2b, P2.2c, N2.2a, N2.2d) 10: Reproducing Patterns (P2.2a, P2.2b, P2.2c, N2.2a, N2.2d) 11: Creating Patterns (P2.2a, P2.2c, P2.2d, N2.2a, N2.2d) 12: Errors and Missing Terms (P2.2a, P2.2c, P2.2d, N2.2a, N2.2d) 13: Solving Problems (P2.2b, P2.2c, N2.2a, N2.2d) 14: Increasing/Decreasing Patterns Consolidation (P2.2a, P2.2b, P2.2c, P2.2d, N2.2a, N2.2d)	<b>On Grade:</b> <ul style="list-style-type: none"> <li>• The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)</li> <li>• Pattern Quest (Activities 6, 10, 11, 14)</li> </ul> <b>Above Grade:</b> <ul style="list-style-type: none"> <li>• Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)</li> </ul>	<b>Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.</b> <b>Representing and Generalizing Increasing/Decreasing Patterns</b> <ul style="list-style-type: none"> <li>- Identifies and extends non-numeric increasing/decreasing patterns (e.g., jump-clap; jump-clap-clap; jump-clap-clap clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)</li> <li>- Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)</li> <li>- Identifies, reproduces, and extends increasing/decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)</li> <li>- Extends number patterns and finds missing elements (e.g., 1, 3, 5, __, 9, ...). (Activities 12; MED 2A: 2)</li> <li>- Creates an increasing/decreasing pattern (concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> </ul>

# Curriculum Correlation

## Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

### Saskatchewan (continued)

<ul style="list-style-type: none"> <li>• <b>N2.2d</b> using personal strategies for adding and subtracting with and without the support of manipulatives</li> </ul>	<p><b>On Grade: Math Every Day</b>  <b>Card 2A:</b>            How Many Can We Make?            (P2.2a, P2.2c, P2.2d, N2.2a, N2.2d)            Error Hunt (P2.2a, N2.2a, N2.2d)  <b>Card 2B:</b>            Making Increasing Patterns            (P2.2a, P2.2d, N2.2a, N2.2d)            Making Decreasing Patterns            (not required by your curriculum)</p>		<p><b>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</b></p> <p><b>Developing Fluency of Addition and Subtraction Computation</b>            - Fluently adds and subtracts with quantities to 20.            (Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2; MED 2B: 1, 2)</p>
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