Master 15a

# **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
Expectations Overall Expectation P1 Patterns and Relations Cross Strand: Number N3 Operational Sense: sol investigate multiplication an P1.1 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 P1.2 identify, describe, and create, through investigation, growing patterns and shrinking patterns and shrinking patterns involving addition and subtraction, with and without the use of calculators	Activity Kit ships: identify, describe, extend, and lve problems involving the addition ar	create repeating patterns, grow	Progression
patterns found in real-life	<ul> <li>P1.4, N3.1)</li> <li>14: Increasing/Decreasing Patterns Consolidation (P1.2, P1.3, P1.4, P1.5, P1.7)</li> </ul>		1; MED 2B: 1, 2)         Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.         Developing Fluency of Addition and Subtraction Computation

Master 15a

## **Curriculum Correlation** Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

#### **Ontario (continued)**

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

Master 15b

# **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
Cross Strand: Number	<ul> <li>Protecting Yate</li> <li>easing patterns can be identified and u</li> <li>conal fluency in addition and subtraction</li> <li>3: Skip-Counting</li> <li>4: Repeated Addition and Subtraction</li> <li>On Grade: Teacher Cards</li> <li>6: Increasing Patterns 1 (P1.3, N3.1)</li> <li>7: Increasing Patterns 2 (P1.3, N3.1)</li> <li>8: Decreasing Patterns (not required by your curriculum)</li> <li>9: Extending Patterns (P1.3, N3.1)</li> <li>10: Reproducing Patterns (P1.3, N3.1)</li> <li>11: Creating Patterns (P1.3, N3.1)</li> <li>12: Errors and Missing Terms (P1.3, N3.1)</li> <li>13: Solving Problems (P1.3, P1.4, P1.5, N3.1)</li> <li>14: Increasing/Decreasing Patterns Consolidation (P1.3, N3.1)</li> </ul>	Ū.	

Master 15b

# **Curriculum Correlation**

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

British Columbia/Yukon Territories (continued)

On Grade: Math Every Day Card 2A: How Many Can We Make? (P1.3, N3.1) Error Hunt (P1.3, N3.1) Card 2B: Making Increasing Patterns (P1.3, N3.1)	Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.         Developing Fluency of Addition and Subtraction Computation         - 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)
(r 1.3, N3.1) Making Decreasing Patterns (not required by your curriculum)	WED 26: 1, 2)

Master 15c

# **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
General Outcome	Activity Kit Use patterns to describe the world and s		Progression         Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.         Representing and Generalizing Increasing/Decreasing Patterns         Identifies and extends non-numeric increasing/ decreasing patterns (e.g., jump-clap; jump-clap-clap, etc.). (Activities 6, 7, 8, 9, 10, 13, 14)         Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)         Identifies, reproduces, and extends increasing/ decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)         Extends number patterns and finds missing elements (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2)         Creates an increasing/decreasing pattern
On Grade: Math Every Day Card 2A: How Many Can We Make? (PR2, N10) Error Hunt (PR2, N10) Card 2B: Making Increasing Patterns (PR2, N10) Making Decreasing Patterns (not required by your curriculum)		<ul> <li>(concretely, pictorially, and/or numerically) and explains the pattern rule. (Activities 11, 14; MED 2A: 1; MED 2B: 1, 2)</li> <li>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</li> <li>Developing Fluency of Addition and Subtraction Computation <ul> <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> </li> </ul>	

Master 15d

## **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
General Outcome	Activity Kit Jse patterns to describe the world and sense. Below Grade: Intervention 3: Skip-Counting 4: Repeated Addition and Subtraction On Grade: Teacher Cards 6: Increasing Patterns 1 (2.PR.2) 7: Increasing Patterns 2 (2.PR.2) 8: Decreasing Patterns (2.PR.2) 10: Reproducing 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) On Grade: Math Every Day Card 2A: 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)		Developing Fluency of Addition and Subtraction Computation - 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)

Master 15e

## **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
General Outcome Patterns and Relations: S Cross Strand Number: 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. N10 Students will be expected to apply mental mathematics			Progression         Inve problems.         Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.         Representing and Generalizing Increasing/Decreasing Patterns         - 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)         - Identifies and extends familiar number patterns and makes connections to addition (e.g., skip-counting by 2s, 5s, 10s). (Activities 7, 10, 13, 14)         - Identifies, reproduces, and extends increasing/ decreasing patterns concretely, pictorially, and numerically using repeated addition or subtraction. (Activities 7, 8, 9, 10, 13, 14)         - Extends number patterns and finds missing elements
strategies to quickly recall basic addition facts to 18 and determine related subtraction facts.	N10) 1: Creating Patterns (PR02, N10) 2: Errors and Missing Terms (PR02, N10) 3: Solving Problems (PR02, N10) 4: Increasing/Decreasing Patterns Consolidation (PR02, N10)		<ul> <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> <li>Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much.</li> <li>Developing Fluency of Addition and Subtraction Computation</li> </ul>
			- 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)

Master 15e

# **Curriculum Correlation**

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

Nova Scotia (continued)

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

Master 15f

# **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
General Outcome	Activity Kit Jse patterns to describe the world and to sense. Below Grade: Intervention 3: Skip-Counting 4: Repeated Addition and Subtraction On Grade: Teacher Cards 6: Increasing Patterns 1 (PR2, N10) 7: Increasing Patterns 2 (PR2, N10) 8: Decreasing Patterns (PR2, N10) 10: Reproducing 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) On Grade: Math Every Day Card 2A: How Many Can We Make? (PR2, N10)		=
	Error Hunt (PR2, N10) Card 2B: Making Increasing Patterns (PR2, N10) Making Decreasing Patterns (not required by your curriculum)		Developing Fluency of Addition and Subtraction Computation - 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)

Master 15g

## **Curriculum Correlation**

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

#### Saskatchewan

Specific Outcomes Mathology Grade 2 Classr Activity Kit	oom Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
Activity KitGoalsNumber Sense, Logical Thinking, Spatial Sense, MatherCross Strand: NumberPatterns and RelationsP2.2 Demonstrateunderstanding ofincreasing patterns by:• P2.2a describing• P2.2b reproducing• P2.2c extending• P2.2d creatingpatterns usingmanipulatives, pictures,sounds, and actions(numbers to 100).NumberN2.2 Demonstrateunderstanding of addition(limited to 1 and 2-digitnumerals) with answersto 100 and thecorresponding subtractionby:• N2.2a representingstrategies for addingand subtractingconcretely, pictorially,	On Grade:           • The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)           • Pattern Quest (Activities 6, 10, 11, 14)           2a, 2d)           2a, 2a,	Big Idea: Regularity and repetition form patterns that can be generalized and predicted

Master 15g

# **Curriculum Correlation**

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

Saskatchewan (continued)

N2.2d using personal strategies for adding and subtracting with and without the support of manipulatives	On Grade: Math Every Day Card 2A: How Many Can We Make? (P2.2a, P2.2c, P2.2d, N2.2a, N2.2d) Error Hunt (P2.2a, N2.2a, N2.2d) Card 2B: Making Increasing Patterns (P2.2a, P2.2d, N2.2a, N2.2d) Making Decreasing Patterns (not required by your curriculum)		Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Fluency of Addition and Subtraction Computation - 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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