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: so investigate multiplication ar 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 involving addition and subtraction, with and without the use of calculators P1.3 identify repeating, growing, and shrinking patterns found in real-life	Activity Kit ships: identify, describe, extend, and lve problems involving the addition ar ad division. Below Grade: Intervention 3: Skip-Counting 4: Repeated Addition and Subtraction On Grade: Teacher Cards 6: Increasing Patterns 1 (P1.2, P1.7) 7: Increasing Patterns 2 (P1.2, P1.4, P1.7) 8: Decreasing Patterns (P1.2, P1.4, P1.7) 9: Extending Patterns (P1.2, P1.7) 10: Reproducing Patterns (P1.2, P1.3, P1.5, P1.7) 12: Errors and Missing Terms (P1.2, P1.5, N3.1) 13: Solving Problems (P1.2, P1.3, P1.4, N3.1)	 create repeating patterns, growind subtraction of one- and two-di On Grade: The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14) Pattern Quest (Activities 6, 10, 11, 14) Above Grade: Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14) 	 Progression ng patterns, and shrinking patterns igit whole numbers, using a variety of strategies, and 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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) 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)
contexts	14: Increasing/Decreasing Patterns Consolidation (P1.2, P1.3, P1.4, P1.5, P1.7)		and subtracted to determine how many or how much. Developing Fluency of Addition and Subtraction
			Computation

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

Ontario (continued)

P1.4 represent a given	On Grade: Math Every Day	- Fluently adds and subtracts with quantities to 20.
growing or shrinking	Card 2A:	(Activities 6, 7, 8, 9, 10, 11, 12, 13, 14, MED 2A: 1, 2;
pattern in a variety of	How Many Can We Make?	MED 2B: 1, 2)
ways	(P1.1, P1.2, P1.5, P1.7)	
	Error Hunt	
P1.5 create growing or	(P1.2, P1.7)	
shrinking patterns		
0.1	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		

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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
Big Idea The regular change in incre Cross Strand: Number Development of computation P1 Repeating and increasing patterns	easing patterns can be identified and u onal fluency in addition and subtractio Below Grade: Intervention 3: Skip-Counting	used to make generalizations. n with numbers to 100 requires On Grade: • The Best Surprise	an understanding of place value. Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically
 patterns using manipulatives, sounds, actions, and numbers (0 to 100) P1.4 Métis finger weaving P1.5 First Peoples head/armband patterning N3 Addition and subtraction facts to 20 N3.1 adding and subtracting numbers to 20 	 Subtraction On Grade: Teacher Cards 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) 	 13, 14) Pattern Quest (Activities 6, 10, 11, 14) Above Grade: Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14) 	 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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) 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)

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Curriculum Correlation

Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

British Columbia/Yukon Territories (continued)

On Grade: Math Every Day	Big Idea: Quantities and numbers can be added
Card 2A:	and subtracted to determine how many or how
How Many Can We Make?	much.
(P1.3, N3.1) Error Hunt (P1.3, N3.1) Card 2B: Making Increasing Patterns (P1.3, N3.1) 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)

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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
General Outcome Patterns and Relations: Cross Strand Number: Develop numbe PR2 Demonstrate an understanding of increasing patterns by: • describing • extending • comparing • creating patterns using manipulatives, diagrams, sounds and actions N10 Apply mental mathematics strategies to determine basic addition facts to 18 and related subtraction facts	Use patterns to describe the world and s r 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 (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) 0n Grade: Math Every Day Card 2A: How Many Can We Make?	 Solve problems. On Grade: The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14) Pattern Quest (Activities 6, 10, 11, 14) Above Grade: Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14) 	 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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) 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)
	(PR2, N10) Error Hunt (PR2, N10) Card 2B: Making Increasing Patterns (PR2, N10) 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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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
Specific Outcomes General Outcome Patterns and Relations: L Cross Strand Number: Develop number 2.PR.2 Demonstrate an understanding of increasing patterns by: • describing • reproducing • creating patterns using manipulatives, diagrams, sounds, and actions (numbers to 100)	Mathology Grade 2 Classroom 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 (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) 0n Grade: Math Every Day Card 2A: How Many Can We Make? (2.PR.2)	Mathology Little Books solve problems. On Grade: • The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14) • Pattern Quest (Activities 6, 10, 11, 14) Above Grade: • Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)	Pearson Canada K-3 Mathematics Learning 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; 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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) - 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) Big Idea: Quantities and numbers can be added and subtracted to determine how many or how much. Developing Fluency of Addition and Subtraction
	Error Hunt (2.PR.2) Card 2B: Making Increasing Patterns (2.PR.2) Making Decreasing Patterns (not required by your curriculum)		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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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: Students will be expected to use patterns to describe the world and solve problems. Cross Strand Number: Students will be expected to develop number sense				
PR02 Students will be expected to demonstrate an	Below Grade: Intervention 3: Skip-Counting 4: Repeated Addition and	On Grade: • The Best Surprise (Activities 6, 8, 9, 10, 11,	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically.	
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 strategies to quickly recall basic addition facts to 18 and determine related subtraction facts.	Subtraction On Grade: Teacher Cards 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)	 13, 14) Pattern Quest (Activities 6, 10, 11, 14) Above Grade: Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14) 	 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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) 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) 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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Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

Nova Scotia (continued)

On G	rade: Math Every Day	
Card	2A:	
How	Many Can We Make?	
(PR0	2, N10)	
Error	Hunt (PR02, N10)	
Card	2B:	
Maki	ng Increasing Patterns	
(PR0	2, N10)	
Maki	ng Decreasing Patterns	
(not r	required by your curriculum)	

Curriculum Correlation

Patterning and Algebra Cluster 2: Increasing/Decreasing Patterns

Alberta/Northwest Territories/Nunavut

Learning Outcomes Mathe Activi	ology Grade 2 Classroom ity Kit	Mathology Little Books	Pearson Canada K-3 Mathematics Learning Progression
General OutcomePatterns and Relations: Use patterCross StrandNumber: Develop number sense.Patterns and Relations2. Demonstrate an understanding of increasing patterns by:	terns to describe the world and to a w Grade: Intervention ip-Counting peated Addition and Subtraction	Solve problems. On Grade: • The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14)	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing and Generalizing
 describing reproducing extending creating numerical (numbers to 100) and non-numerical patterns using manipulatives, diagrams, sounds and actions. Number 10. Apply mental mathematics strategies for basic addition facts and related subtraction facts to 18. On Gatherson Sole 11: Creation 12: Erronic Number 13: Sole 14: Inc Configure On Gatherson Making (PR2) Making (PR2) Making	rade: Teacher Cards creasing Patterns 1 (PR2, N10) creasing Patterns 2 (PR2, N10) creasing Patterns (not required your curriculum) tending Patterns (PR2, N10) eproducing Patterns (PR2, N10) eating Patterns (PR2, N10) rors and Missing Terms (PR2, 0) dving Problems (PR2, N10) creasing/Decreasing Patterns nsolidation (PR2, N10) creasing/Decreasing Patterns nsolidation (PR2, N10) creasing/Decreasing Patterns nsolidation (PR2, N10) creasing Can We Make? c, N10) Hunt (PR2, N10) 2B: ng Increasing Patterns c, N10) ng Decreasing Patterns	 Pattern Quest (Activities 6, 10, 11, 14) Above Grade: Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14) 	 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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) 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) 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;

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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
Goals Number Sense, Logical Th Cross Strand: Number	inking, Spatial Sense, Mathematics a	s a Human Endeavour	
Patterns and Relations P2.2 Demonstrate understanding of increasing patterns by:	Below Grade: Intervention3: Skip-Counting4: Repeated Addition and Subtraction	 On Grade: The Best Surprise (Activities 6, 8, 9, 10, 11, 13, 14) Pattern Quest 	Big Idea: Regularity and repetition form patterns that can be generalized and predicted mathematically. Representing and Generalizing Increasing/Decreasing Patterns
 P2.2a describing P2.2b reproducing P2.2c extending P2.2d creating patterns using manipulatives, pictures, sounds, and actions (numbers to 100). Number N2.2 Demonstrate understanding of addition (limited to 1 and 2-digit numerals) with answers to 100 and the corresponding subtraction by: N2.2a representing strategies for adding and subtracting concretely, pictorially, and symbolically 	 On Grade: Teacher Cards 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) 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) 	(Activities 6, 10, 11, 14) Above Grade: • Namir's Marvellous Masterpieces (Activities 6, 8, 10, 11, 13, 14)	 Identifies and extends non-numeric increasing/ decreasing patterns (e.g., jump-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 (e.g., 1, 3, 5,, 9,). (Activities 12; MED 2A: 2) 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)

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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	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)
	(P2.2a, P2.2d, N2.2a, N2.2d) Making Decreasing Patterns (not required by your curriculum)	