

GRADE 2 Patterns and Relations Specific Outcomes	Key Concepts in Patterns underpinning Curriculum Outcomes from FSIM: Operations Resource Books	Sample Diagnostic Tasks and Activities	Sample Learning Tasks Selected from FSIM: Operations Resource Books	Math Station Ideas:
P2.1 Demonstrate understanding of repeating patterns (three to five elements) by: • describing • representing patterns in alternate modes • extending • comparing • creating patterns using manipulatives, pictures, sounds, and actions.	Patterns and Algebra KU1: • We use regularity or pattern to infer one thing from another thing and to make predictions. Patterns and Algebra KU2: • Representing aspects of a situation with numbers can make it easier to see patterns in the situation.	Sample Structured Interview: Assessing Prior Knowledge and Skills (Learn Alberta, 2016, p. 10)	Operation Sense: Pages 222 - 223 • Sound and Movement • Lining Up • Necklaces/Varied Objects Operation Sense: Pages 234 - 235 • Necklaces • Print Making • How Many?	The Pattern Shapes App (students can create patterns, save them, and then have others build or extend them) Pattern Blocks Station

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P2.2 Demonstrate understanding of increasing patterns by: • describing • reproducing • extending • creating patterns using manipulatives, pictures, sounds, and actions (numbers to 100).	Patterns and Algebra KU1: • We use regularity or pattern to infer one thing from another thing and to make predictions. Patterns and Algebra KU2: • Representing aspects of a situation with numbers can make it easier to see patterns in the situation.		Operation Sense: Pages 234 - 237 • Tricycles • What's next? • Puppies?	"Patterns on the Hundreds Chart" p. 57 "Extend and Explain" p. 281 "Predict How Many" p. 282 "Start and Jump Numbers" p. 286

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P2.3 Demonstrate understanding of equality and inequality concretely and pictorially (0 to 100) by: • relating equality and inequality to balance • comparing sets • recording equalities with an equal sign • recording inequalities with a not equal sign • solving problems involving equality and inequality.	Operations KU2: Partitioning numbers into part-part-whole helps us relate addition and subtraction and understand their properties. Operations KU7: Properties of operations and relationships between them can help us to decide whether number sentences are true.		Operation Sense: Pages 42 - 43 • Number Combinations • Number Sentences • Part-Part-Whole Operations Sense: Page 88 • Missing Number	“Build It In Parts” P. 48 “Balancing Act” game “Squeeze Play” game “Secret Numbers” game