GRADE 6 Patterns and Relations Specific Outcomes	Key Concepts in Patterns underpinning Curriculum Outcomes from FSIM: Operations Resource Book and Data Management and Probability Book	Sample Diagnostic Tasks and Activities	Sample Learning Tasks Selected from FSIM: Operations Resource Book Data Management and Probability Book	Math Station Ideas:
P6.1 Extend understanding of patterns and relationships in tables of values and graphs.	Patterns and Algebra KU2: • Representing aspects of a situation with numbers can make it easier to see patterns in the situation. Patterns and Algebra KU3: • To describe a number pattern means to provide a precise rule that produces the pattern. Patterns and Algebra KU4: • There are strategies that help us become better at recognizing common types of patterns. Summarize and Represent Data KU2: • We can display data visually; some graphs and plots show how one quantity varies over time. Summarize and Represent Data KU4: • We use tables and diagrams to organize and summarize data in a systematic way.		Operation Sense: 238 - 239 • Toothpick Design • Folding Paper • Rumour Mill Operation Sense: 250-251 • Everyday Formulas • Hexagon Patterns • Graphs Operation Sense: 259-261 • Sticky Instructions • Classifying • Graphs Data Management: 180-181 • Growth and Change • Line Graph • Height Measurements Data Management: 196-197 • Flight Information • Changing Headings • Totals Tables	"Green Worms" (document) "Building Towers" (document) "Making Money" (document) IXL: Create Line Graphs (online interactive) "Penny Patterns" in *Math Makes Sense 6 ProGuide ™ Unit 1: Patterns and Equations*, p. ix.

GRADE 6 Patterns and Relations Specific Outcomes	Key Concepts in Patterns underpinning Curriculum Outcomes from FSIM: Operations Resource Book	Sample Diagnostic Tasks and Activities	Sample Learning Tasks Selected from FSIM: Operations Resource Book	Math Station Ideas:
P6.2 Extend understanding of preservation of equality concretely, pictorially, physically, and symbolically. P6.3 Extend understanding of patterns and relationships by using expressions and equations involving variables.	Operations KU7: • Properties of operations and relationships between them can help us to decide whether number sentences are true. Operations KU8: • Thinking of a problem as a number sentence often helps us solve it. Sometimes we need to rewrite the number sentence in a different but equivalent way. Patterns and Algebra KU2: • Representing aspects of a situation with numbers can make it easier to see patterns in the situation. Patterns and Algebra KU3: • To describe a number pattern means to provide a precise rule that produces the pattern.		Operation Sense: 89-93 • Equals • What Do You Know? • Bigger or Smaller • Bigger, Smaller, or Equal • Equivalent Statements • The Same As • Equivalent Statements (93) Operations Sense: 97-101 • Numbers and Signs • Equivalent Sentences • Rewriting Problems • Unknown Quantity Operation Sense: 238 - 239 • Picture Frames • River Crossing Operation Sense: 250-251 • Triangle Toothpick Design • Different Rule, Same Pattern • Hexagon Patterns • Magic Calculating Machine • Graphs	"Open Sentences" p. 230 TS-CM 6-8 "Writing True/False Sentences" p. 231 TS-CM 6-8 Function Machine (online interactive) Khan Academy: Variables and Expressions Introduction (online interactive) "Concentrating on Equality" in *Math Makes Sense 6 ProGuide ™ Unit 1: Patterns and Equations*, p. ix. Area and Perimeter (online interactive)