	EnVision Math Unit Lesson	Common Core Standa	ards:	
Grade Level: Fourth Grad	e Topic 2: Generate and	Analyze Patterns	4.OA.3; 4.OA.5	
Big Ideas:	can be solved by using objects to	(2-1) • What is the patte • What pairs of nu • What is a math r • How can you des • How can you sol out and using re	 How can you continue a repeating pattern? (2-1) What is the pattern? (2-2) What pairs of numbers fit a pattern? (2-3) What is a math rule for the situation? (2-4) How can you describe black towers? (2-5) How can you solve problems by acting them out and using reasoning? (2-6) 	
Lesson 1:	be solved by reasoning about the classon 2:	Lesson 3:	Lesson 4:	Lesson 5:
Repeating Patterns	Number Sequences	Extending Tables	Writing Rules for Situations	Geometric Patterns
Vocabulary: repeating pattern	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
Objective: Students will identify and extend repeating geometric or repeating number patterns. Materials: Pattern Blocks or Tangram Pieces (Teaching Tool 24) Content Reviewed: Division; Fractions; Subtraction; Fact Families; Multiplication Facts; Problem Solving	Objective: Students will identify and extend whole-number patterns involving addition and subtraction. Materials: Recording Sheet: Number Sequences (Teaching Tool 26) Content Reviewed: Identify Fractions; Addition; Addition Properties; Problem Solving; Number Patterns; Model Fractions; Division	Objective: Students will extend tables of ordered pairs for situations involving multiplication, addition, or subtraction. Materials: Two-Color Counters (Teaching Tool 12) Content Reviewed: Problem Solving; Multiplication Facts; Number Patterns; Multiplication; Subtraction; Identify Fractions; Number Patterns;	Objective: Students will find a rule and extend the table, given a table of number pairs. Materials: Recording Sheet: Writing Rules for Situations (Teaching Tool 27) Content Reviewed: Patterns in a Table; Number Patterns; Problem Solving; Compare Fractions; Multiplication Facts	Objective: Students will extend patterns of cubes or tiles. Materials: Cubes (40 per pair) Centimeter Grid Paper (Teaching Tool 4) Content Reviewed: Patterns; Estimation; Multiplication; Bar Graphs; Division Standard: 4.OA.5
Standard:	Standard:	Division	Standard:	
4.OA.5	4.OA.5	Standard: 4.OA.5	4.OA.5	
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 2 Introduction Daily Common Core Review	Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive	Daily Common Core Review Problem-Based Interactive

Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework Lesson 6: Problem Solving: Act it Out and Use	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework
Reasoning				
Vocabulary:				
Objective: Students will use the strategies Act It Out and Use Reasoning to solve problems.				
Materials: Two-Color Counters (Teaching Tool 12)				
Content Reviewed: Geometric Patterns; Model Fractions; Measure Time; Compare Fractions; Problem Solving; Patterns in Tables; Multiplication Properties				
Standard:				
4.OA.2; 4.OA.3				
Assessment				
Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and				

Enrichment Homework		
Topic 2 Assessment		