EnVision Math Unit Lesson Plan			Common Core Standards:	
Grade Level: Fourth Grade Topic 16: Lines, Angles, and Shapes		s, and Shapes 4	4.G.1; 4.G.2; 4.G.3; 4.MD.5.a; 4.MD.5.b;	
			.MD.6; 4.MD.7	
Instructional Emphasis: Geometry			ssential Questions:	
 Big Ideas: 16-1: Point, line, and plane are the core attributes of space objects, and real-world situations can be used to think about these attributes. 16-2: Line segments and rays are sets of points that describe parts of lines, shapes and solids. Angles are formed by two intersecting lines or by rays with a common endpoint and are classified by size. 16-3: The measure of an angle depends upon the fraction of the circle cut off by its rays. 16-4, 16-5: The unit for measuring the size of the opening of an angle is 1 degree. 16-6: Angle measures can be added or subtracted. 16-7, 16-8, 16-9: Two-dimensional or plane shapes have many properties that make them different from one another. Polygons can be described and classified by their sides and angles. 16-10: Some shapes can be reflected across one or more lines passing through the shape so the shape folds onto itself exactly. 16-11: Commonalities in attributes of objects or situations can be found and used to make generalizations about relationships. 		 What are some important geometric names for lines? (16-1) What geometric terms describe types of angles? (16-2) How do you find the measure of an angle using equivalent fractions? (16-3) How are angles measured? (16-4) How can you draw an angle? (16-5) How can you add and subtract to find unknown angle measures? (16-6) How do you identify polygons? (16-7) How can you classify triangles? (16-8) How can you classify quadrilaterals? (16-9) What is a line of symmetry? (16-10) How can you test generalizations? (16-11) 		
Lesson 1:	Lesson 2:	Lesson 3:	Lesson 4:	Lesson 5:
Points, Lines, and Planes L	Line Segments, Rays, and Angles	Understanding Angles and Unit Angles	Measuring with Unit Angles	Measuring Angles
point; line; plane; parallel lines; intersecting lines; perpendicular lines Objective: Students will identify and describe points, lines, and planes. Materials: Centimeter Grid Paper (Teaching Tool 4) Content Reviewed: Order Whole Numbers;	pcabulary: ne segment; ray; angle; ght angle; acute angle; ght angle; straight angle pjective: cudents will learn cometric terms to describe arts of lines and types of ngles. paterials: pt Paper (Teaching Tool 7) pontent Reviewed: cultiplication; Counting coney; Division; Parallel	Vocabulary: degree; unit angle; angle measure Objective: Students will use unit angles and fractions of a circle to find angle measures. Materials: Clock Face (Teaching Tool 23) Content Reviewed: Order Fractions; Area; Perimeter; Multiplication; Estimating Sums	Vocabulary: Objective: Students will use a smaller angle to measure a larger angle by repeating the unit. Materials: Pattern Blocks (or Teaching Tool 25) Paper Content Reviewed: Multiplication; Equivalent Fractions; Division; Round Whole Numbers	Vocabulary: protractor Objective: Students will be able to measure and draw angles. Materials: Recording Sheet: Blank Protractors (Teaching Too 34) Rulers (or Teaching Tool 21) Content Reviewed: Counting Change;

Problem Solving

Addition Sentence;

Standard:	Standard: 4.G.1	4.G.1	4.MD.5.a; 4.G.1	Decimals; Patterns; Compare Whole Numbers
4.G.1	4.0.1			Compare Whole Warnbers
4.0.1				Standard:
				4.MD.6; 4.MD.5.a;
				4.MD.5.b; 4.G.1
Assessment	Assessment	Assessment	Assessment	Assessment
Topic 16 Introduction	Daily Common Core Review	Daily Common Core Review	Daily Common Core Review	Daily Common Core Review
Daily Common Core Review	Problem-Based Interactive	Problem-Based Interactive	Problem-Based Interactive	Problem-Based Interactive
Problem-Based Interactive	Learning	Learning	Learning	Learning
Learning	Guided Practice	Guided Practice	Guided Practice	Guided Practice
Guided Practice	Independent Practice	Independent Practice	Independent Practice	Independent Practice
Independent Practice	Problem Solving	Problem Solving	Problem Solving	Problem Solving
Problem Solving	Quick Check Master	Quick Check Master	Quick Check Master	Quick Check Master
Quick Check Master	Center Activity	Center Activity	Center Activity	Center Activity
Center Activity	Reteaching, Practice, and	Reteaching, Practice, and	Reteaching, Practice, and	Reteaching, Practice, and
Reteaching, Practice, and	Enrichment Homework	Enrichment Homework	Enrichment Homework	Enrichment Homework
Enrichment Homework	1 7 ·	Lancar O.	1,2227 0.	Lagram 10:
Lesson 6:	Lesson 7:	Lesson 8:	Lesson 9:	Lesson 10:
Adding and Subtracting	Polygons	Triangles	Quadrilaterals	Line Symmetry
Angle Measures				
Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:	Vocabulary:
	polygon; side; vertex;	equilateral triangle;	rhombus; trapezoid;	symmetric; line of
Objective:	triangle; quadrilateral;	isosceles triangle; scalene	parallelogram; rectangle;	symmetry
Students will find unknown	pentagon; hexagon; octagon	triangle; right triangle;	square	
angle measures by adding		acute triangle; obtuse		Objective:
and subtracting.	Objective:	triangle	Objective:	Students will determine if
	Students will learn to		Students will learn to	a plane figure has line
Materials:	identify polygons.	Objective:	identify quadrilaterals.	symmetry and if so, how
Protractors (Teaching Tool		Students will learn to		many lines of symmetry it
22)	Materials:	identify and classify	Materials:	has.
Rulers (Teaching Tool 21)	Polygons (per group)	triangles.	Polygons (Teaching Tool	
, ,	(Teaching Tool 25)		25) (per group)	Materials:
Content Reviewed:		Materials:	, (1, 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Scissors
Measurement; Fractions	Content Reviewed:	Polygons (Teaching Tool 25)	Content Reviewed:	Paper
and Decimals; Fact	Multiply by 10s; Round	(per group)	Round Whole Numbers;	
Families; Multiplication;	Whole Numbers; Angles;	(5.54)	Multiplication; Counting	Content Reviewed:
Number Patterns; Angle	Multiplication; Place Value;	Content Reviewed:	Money; Classify Triangles;	Round Whole Numbers;
Measures	Multiple-Step Problem	Counting Change; Division;	Subtraction; Polygons	Convert Customary Units;
		Polygons; Compatible		Interpret Informal
Standard:	Standard:	Numbers; Place Value;	Standard:	Language; Counting
		Multiplication		Money; Geometric
4.MD.7; 4.MD.5.a;	4.G.2		4.G.2	Figures; Division with
4.MD.5.b; 4.MD.6		Standard:		Remainders; Counting
, -		Juanuanu.		Kemamuers, Counting

		4.G.2		Money
				Standard: 4.G.3
Assessment	Assessment	Assessment	Assessment	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	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework	Daily Common Core Review Problem-Based Interactive Learning Guided Practice Independent Practice Problem Solving Quick Check Master Center Activity Reteaching, Practice, and Enrichment Homework
Lesson 11: Problem Solving: Make and Test Generalizations				
Vocabulary:				
Objective: Students will solve problems by making and testing generalizations. Materials: Content Reviewed:				
Compare Decimals; Convert Customary Units; Multiplication; Fractions; Geometry; Subtraction				
Standard: 4.G.2; 4.OA.5				
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 16 Assessment		