Basic Geometry I	Scope and Sequence
Unit Lesson	**Objectives**
Coordinate Geometry	
Plotting Points in the Four Quadrants	
	Graph and name points in all four quadrants.
	Identify the quadrant in which a point lies.
	Describe the relationship between ordered pairs that differ only in sign.
Fractional Coordinates	
	Graph and name points that contain a fraction.
	Graph and name points that contain a decimal.
Distance between Two Points	
	Use a number line to find the distance between two points in the same quadrant that have the same x- or y-coordinate.
	Use absolute value to find the distance between two points in different quadrants that have the same x- or y-coordinate.
Polygons in the Coordinate Plane	
	Identify polygons on the coordinate plane given coordinates of the vertices.
	Find lengths of sides for polygons drawn on the coordinate plane.
Unit Test	
Angle Relationships and Properties	
Finding Unknown Angle Measures	
	Use angle relationships to find unknown measures in a figure.
Slopes of Parallel and Perpendicular Lines	
	Use slopes to identify lines that are either parallel or perpendicular.

Basic Geometry I		Scope and Sequence
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		Use slopes to analyze polygons drawn in the coordinate plane.
		Write an equation of a line that passes through a given point and is parallel or perpendicular to a given line.
	Angle Relationships	
		Name an angle.
		Identify vertical, adjacent, complementary, and supplementary angles.
		Determine congruence in vertical angle relationships.
		Find missing angle measures using angle relationships.
	Transversals	
		Determine angle relationships created by a transversal line intersecting two nonparallel lines.
		Find unknown angle measures created by a transversal intersecting two or more nonparallel lines.
	Parallel Lines Cut by a Transversal	
		Identify interior angles, exterior angles, alternate interior angles, and alternate exterior angles when a transversal crosses parallel lines.
		Find missing measurements using angle relationships in a diagram of a transversal crossing parallel lines.
		Determine if two lines cut by a transversal are parallel.
	Sum of Interior Angles of a Triangle	
		Explain that the sum of the interior angles of a triangle is 180 degrees by rearranging the angles to create a straight line.
		Use angle relationships formed from parallel lines cut by transversals to establish facts about the interior angles of a triangle.
		Determine the angle measures of interior angles of a triangle.
	Exterior Angles of a Triangle	
		Identify exterior, adjacent interior, and remote interior angles of a triangle.
		Use angle relationships to establish facts about exterior angles of a triangle.

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		Determine angle measures of exterior angles of a triangle and the sum of exterior angles of a triangle.
	Solving for Unknown Angles in Triangles	
		Use algebra to find unknown interior or exterior angle measures of a triangle.
		Apply properties of parallel lines cut by a transversal to solve for unknown angle measures of a triangle.
	Constructing Triangles	
		Construct triangles from given parameters.
		Identify whether given parameters create a unique triangle, more than one triangle, or no triangle.
	Constructing Geometric Figures	
		Construct geometric figures from triangles.
		Describe the characteristics of polygons.
	Unit Test	
Area and Perimeter		
	Properties of Quadrilaterals	
		Sort and classify polygons as quadrilaterals, parallelograms, rectangles, trapezoids, kites, rhombi, and squares based on their properties.
		Find unknown measures of a figure based on its classification.
	Finding Area on a Coordinate Plane	
		Find lengths of sides for rectangles drawn in the coordinate plane.
		Calculate the area of a rectangle drawn in the coordinate plane.
	Area of Parallelograms	
		Use the formula A = bh to find the area of a parallelogram.
		Solve real-world problems involving the area of parallelograms.

Basic Geometry I		Scope and Sequence
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	Area of Triangles	
		Calculate the area of triangles using the formula A = ½bh.
		Solve real-world problems involving the area of triangles.
	Area of Special Quadrilaterals	
		Find the area of special quadrilaterals.
		Solve real-world problems involving the area of special quadrilaterals.
	Perimeter and Area of Irregular Figures	
		Use a grid to estimate the perimeter and area of irregular figures without decomposing them.
	Area of Composite Figures	
		Solve problems involving the area of composite figures.
	Shapes with Fractional Side Lengths	
		Find the area of triangles and rectangles that have fractional or decimal side lengths.
		Find the area of irregular figures that have fractional or decimal side lengths.
	Unit Test	
Circles		
	Circumference	
		Solve problems involving the circumference of a circle.
	Area of a Circle	
		Solve problems involving the area of a circle.
		Describe the relationship between the circumference and area of a circle.
	Applications of Circle Measurements	

Basic Geometry I		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Calculate the circumference and area of a circle to solve mathematical and real-world problems.
		Calculate the arc length and area of a sector of a circle to solve mathematical and real-world problems.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	
	Cumulative Exam	