Basic Geometry II	Scope and Sequence
Unit **Lesson**	**Objectives**
Transformations	
Congruence	
	Determine the congruence of figures by measuring corresponding sides and angles.
	Identify and write corresponding parts of congruent figures.
Translations	
	Identify and describe a translation on the coordinate plane.
	Translate figures on the coordinate plane given as an ordered pair and verbal expression.
	Describe a translation using coordinates.
Reflections	
	Identify and describe a reflection on the coordinate plane.
	Reflect figures on the coordinate plane given the line of reflection.
	Describe a reflected figure using the line of reflection and coordinates.
Rotations in the Coordinate Plane	
	Rotate figures on the coordinate plane given the degree and direction.
	Describe the rotation of a figure using coordinates.
Congruence and Transformations	
	Describe a sequence of transformations that shows that a given pre-image is congruent to a transformed figure.
Dilations in the Coordinate Plane	
	Use the scale factor to graph dilations on the coordinate plane.
	Describe the dilation of a figure on the coordinate plane by the scale factor.
Similarity and Transformations	
	Determine the similarity of figures by comparing corresponding side lengths and angle measures.

Basic Geometry II	Scope and Sequence
Unit Lesson	**Objectives**
	Apply scale factor to find unknown side lengths of an image or pre-image after a dilation or sequence of transformations.
	Describe a sequence of transformations that result in a similar figure.
Similar Triangles	
	Identify proportionality of side lengths to determine triangle similarity.
	Write similarity statements of similar triangles.
	Analyze and apply third angle theorem and angle-angle criterion in similar triangles.
Two-Dimensional Symmetry	
	Describe lines of symmetry in two-dimensional shapes.
	Identify lines of symmetry in two-dimensional shapes.
Unit Test	
Scale Drawings	
Scale Factor	
	Use a given scale factor to find an unknown length on a reduction or enlargement.
	Use a given scale factor to find an unknown length on an original.
Determining a Scale Factor	
	Identify a scale factor from given dimensions and use it to calculate unknown dimensions.
Solving Scale Problems Using Proportions	
	Use proportional relationships to solve problems involving scale drawings.
Scale Drawings and Area	
	Compute areas of figures from scale drawings.
Changing a Scale	

Basic Geometry II	Scope and Sequence
Unit Lesson	**Objectives**
	Solve problems involving reproducing a scale drawing using a different scale.
Unit Test	
Volume	
Volume of Prisms	
	Calculate volumes of rectangular and triangular prisms.
Volume of Pyramids	
	Calculate volumes of rectangular and square pyramids.
Introduction to the Volume of a Cone	
	Recognize and identify parts of a cone.
	Connect the volume of a cone to the volume of a cylinder.
	Apply the formula to find the volume of a cone.
Introduction to the Volume of a Sphere	
	Identify the parts of a sphere.
	Connect the volume of a sphere to the volume of a cylinder.
	Apply the formula to find the volume of a sphere.
Volume of Composite Figures	
	Calculate volumes of composite figures.
Unit Test	
Surface Area	
Surface Area of Prisms	
	Calculate surface areas of rectangular and triangular prisms.
Surface Area of Pyramids	

Basic Geometry II	Scope and Sequence
Unit Lesson	Objectives
	Calculate surface area of rectangular and square pyramids.
Surface Area and Volume of Cylinders	
	Solve mathematical and real-world problems involving the volume and surface area of cylinders.
Surface Area of a Cone	
	Determine the base area and lateral area of a cone.
	Calculate the surface area of a cone.
Surface Area of Spheres	
	Solve problems involving surface area of spheres.
Surface Area of Composite Figures	
	Calculate surface areas of composite figures.
Unit Test	
Cumulative Exam	
Cumulative Exam Review	
Cumulative Exam	