

Honors Geometry

Semester A Summary:

In this course, the student will explore the principles of logic as they learn concepts through a variety of instructional strategies and activities including peer model demonstration. The student will use formulas to solve problems and explore rigid transformations. Concepts such as proofs, axioms, postulates and theorems are presented as the student solves real-world applications. The student will also study parallel and perpendicular lines, including special angle pairs. Additionally, this course explores triangle concepts including the Pythagorean Theorem to find angle measurements, prove triangles congruent, and discover relationships within and between triangles. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

Semester A Outline

1. Course Overview

- 1. Geometry Course Overview
- 2. Student Course Introduction Quick Check

2. Geometry Basics

- 1. Geometry Basics Introduction
- 2. Basic Geometric Terms
 - In this section, you will identify the definitions of angle, circle, and line segment.
- 3. Basic Geometric Terms Quick Check
- 4. Copying a Segment
 - In this section, you will identify the steps needed to construct a copy of a line segment using a compass and a straightedge.
- 5. Copying a Segment Quick Check
- 6. Bisecting a Segment
 - In this section, you will identify the steps needed to bisect a line segment using a compass and a straightedge.
- 7. Bisecting a Segment Quick Check
- 8. Copying an Angle
 - In this section, you will identify the steps needed to copy an angle using a compass and a straightedge.
- 9. Copying an Angle Quick Check
- 10.Bisecting an Angle
 - In this section, you will identify the steps needed to bisect an angle using a compass and a straightedge.
- 11.Bisecting an Angle Quick Check
- 12. Distance and The Pythagorean Theorem

- In this section, you will use the Pythagorean Theorem to derive the distance formula.
- 13. Distance and The Pythagorean Theorem Quick Check
- 14. Finding the Midpoint of a Segment
 - In this section, you will calculate the midpoint of a line segment plotted on the coordinate plane.
- 15. Finding the Midpoint of a Segment Quick Check
- 16.Perimeter of Polygons
 - In this section, you will calculate the perimeter of a polygon plotted on the coordinate plane.
- 17. Perimeter of Polygons Quick Check
- 18.Area of Polygons
 - In this section, you will calculate the areas of triangles and rectangles plotted on the coordinate plane.
- 19. Area of Polygons Quick Check
- 20.Geometry Basics Apply
- 21.Geometry Basics Portfolio
- 22.Geometry Basics Online Practice
- 23.Geometry Basics Review
- 24. Geometry Basics Sample Work
- 25.Geometry Basics Unit Test
- 3. Proofs
 - 1. Proofs Introduction
 - 2. Axioms, Postulates, and Theorems
 - In this section, you will explain the structure of the axiomatic system found in geometry, analyze arguments related to these relationships, and offer explanations to support your thinking.
 - 3. Axioms, Postulates, and Theorems Quick Check
 - 4. Geometric Proofs
 - In this section, you will investigate patterns to make conjectures about geometric relationships.
 - 5. Geometric Proofs Quick Check
 - 6. Vertical Angles
 - In this section, you will prove the congruence of vertical angles.
 - 7. Vertical Angles Quick Check
 - 8. The Triangle Sum Theorem
 - In this section, you will prove that the measures of the interior angles of a triangle sum to 180°.
 - 9. The Triangle Sum Theorem Quick Check
 - 10.Proofs Apply
 - 11. Proofs Online Practice
 - 12.Proofs Review
 - 13. Proofs Sample Work
 - 14.Proofs Unit Test

4. Parallel and Perpendicular Lines

- 1. Parallel and Perpendicular Lines Intro
- 2. Parallel and Perpendicular Lines
 - In this section, you will identify the definitions of parallel lines and perpendicular lines.
- 3. Parallel and Perpendicular Lines Quick Check

- 4. Constructing Perpendicular Lines
 - In this section, you will identify the steps needed to construct perpendicular lines using a compass and a straightedge.
- 5. Constructing Perpendicular Lines Quick Check
- 6. Constructing Perpendicular Bisectors
 - In this section, you will identify the steps needed to construct the perpendicular bisector of a line segment using a compass and a straightedge.
- 7. Constructing Perpendicular Bisectors Quick Check
- 8. Constructing Parallel Lines
 - In this section, you will identify the steps needed to construct a line parallel to a given line through a point not on the line.
- 9. Constructing Parallel Lines Quick Check
- 10.Proving Congruent Angles
 - In this section, you will write proofs to prove the congruence of alternate interior angles and the congruence of corresponding angles.
- 11.Proving Congruent Angles Quick Check
- 12.Parallel Lines & Congruent Angles
 - In this section, you will use your understanding of the congruence of alternate interior angles and the congruence of corresponding angles to solve problems.
- 13. Parallel Lines & Congruent Angles Quick Check
- 14. Proving Supplementary Angles
 - In this section, you will write proofs to prove that alternate exterior angles are congruent and same-side interior angles are supplementary.
- 15. Proving Supplementary Angles Quick Check
- 16.Parallel Lines & Supplementary Angles
 - In this section, you will solve problems using your understanding of the congruence of alternate exterior angles and the fact that same-side interior angles are supplementary.
- 17.Parallel Lines & Supplementary Angles Quick Check
- 18.Slopes of Parallel Lines
 - In this section, you will write a proof to prove that parallel lines have equal slopes.
- 19.Slopes of Parallel Lines Quick Check
- 20.Using Slopes of Parallel Lines
 - In this section, you will use your understanding of the slopes of parallel lines to solve problems.
- 21. Using Slopes of Parallel Lines Quick Check
- 22.Slopes of Perpendicular Lines
 - In this section, you will write a proof to prove that perpendicular lines have negative reciprocal slopes.
- 23. Slopes of Perpendicular Lines Quick Check
- 24. Using Slopes of Perpendicular Lines
 - In this section, you will solve problems using your understanding of the slopes of perpendicular lines.
- 25. Using Slopes of Perpendicular Lines Quick Check
- 26.Perpendicular Bisectors
 - In this section, you will write a proof to prove that points on a perpendicular bisector are equidistant from the line segment's endpoints.
- 27.Perpendicular Bisectors Quick Check

- 28.Perpendicular Bisector Theorem
 - In this section, you will solve problems using your understanding of the points on a perpendicular bisector and how they are equidistant from the segment's endpoints.
- 29.Perpendicular Bisector Theorem Quick Check
- 30.Partitioning a Line Segment
 - In this section, you will identify the point on a directed line segment between two given points that partitions the segment in a given ratio.
- 31.Partitioning a Line Segment Quick Check
- 32. Parallel and Perpendicular Lines Apply
- 33.Parallel and Perpendicular Lines Portfolio
- 34. Parallel and Perpendicular Lines Online Practice
- 35.Parallel & Perpendicular Lines Review
- 36.Parallel & Perpendicular Lines Sample Work
- 37.Parallel and Perpendicular Lines Test

5. Rigid Transformations

- 1. Rigid Transformations Introduction
- 2. Translations
 - In this section, you will define translations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.
- 3. Translations Quick Check
- 4. Reflections
 - In this section, you will define reflections in terms of angles, circles, perpendicular lines, parallel lines, and line segments.
- 5. Reflections Quick Check
- 6. Rotations
 - In this section, you will define rotations in terms of angles, circles, perpendicular lines, parallel lines, and line segments.
- 7. Rotations Quick Check
- 8. Coordinate Plane Transformations
 - In this section, you will create and describe transformations in the coordinate plane.
- 9. Coordinate Plane Transformations Quick Check
- 10. Transformations and Symmetry
 - In this section, you will describe the rotations and reflections that will carry a figure onto itself.
- 11. Transformations and Symmetry Quick Check
- 12.Drawing Transformed Figures
 - In this section, you will draw a transformed geometric figure, given a preimage and a description of the transformation(s) to be performed.
- 13.Drawing Transformed Figures Quick Check
- 14.Carrying a Figure onto Another
 - In this section, you will identify a sequence of transformations that will carry a figure onto another figure.
- 15.Carrying a Figure onto Another Quick Check
- 16.Rigid Motions
 - In this section, you will use descriptions of rigid motions to transform figures.
- 17.Rigid Motions Quick Check
- 18.Effects of Rigid Motions
 - In this section, you will predict the effect of a rigid motion on a given figure.

- 19.Effects of Rigid Motions Quick Check
- 20.Rigid Motions and Congruence
 - In this section, you will use your understanding of the effects of rigid motions to decide if figures are congruent.
- 21.Rigid Motions and Congruence Quick Check
- 22.Rigid Transformations Apply
- 23.Rigid Transformations Online Practice
- 24.Rigid Transformations Review
- 25.Rigid Transformations Sample Work
- 26.Rigid Transformations Unit Test

6. Congruence

- 1. Congruence Introduction
- 2. Congruent Triangles
 - In this section, you will use your understanding of the effects of rigid motions to show that two triangles are congruent if and only if corresponding pairs of sides are congruent and corresponding pairs of angles are congruent.
- 3. Congruent Triangles Quick Check
- 4. Angle Side Angle Postulate
 - In this section, you will explain how the ASA criteria for triangle congruence follows from the definition of congruence in terms of rigid motions.
- 5. Angle Side Angle Postulate Quick Check
- 6. Side Angle Side Postulate
 - In this section, you will explain how the SAS criteria for triangle congruence follows from the definition of congruence in terms of rigid motions.
- 7. Side Angle Side Postulate Quick Check
- 8. Side Side Side Postulate
 - In this section, you will explain how the SSS criteria for triangle congruence follows from the definition of congruence in terms of rigid motions.
- 9. Side Side Side Postulate Quick Check
- 10.Hypotenuse Leg Postulate
 - In this section, you will explain how the HL criteria for triangle congruence follows from the definition of congruence in terms of rigid motions.
- 11. Hypotenuse Leg Postulate Quick Check
- 12. Angle Angle Side Postulate
 - In this section, you will explain how the AAS criteria for triangle congruence follows from the definition of congruence in terms of rigid motions.
- 13.Angle Angle Side Postulate Quick Check
- 14.Triangle Congruence
 - In this section, you will use congruence criteria for triangles to solve problems.
- 15. Triangle Congruence Quick Check
- 16. Proving Geometric Relationships
 - In this section, you will use congruence criteria for triangles to prove relationships in geometric figures.
- 17. Proving Geometric Relationships Quick Check
- 18.Proving Geometric Theorems
 - In this section, you will use coordinates to prove simple geometric theorems algebraically.
- 19. Proving Geometric Theorems Quick Check
- 20.Congruence Apply

- 21. Congruence Review Online Practice
- 22.Congruence Review
- 23.Congruence Sample Work
- 24.Congruence Unit Test

7. Triangle Relationships

- 1. Triangle Relationships Introduction
- 2. The Isosceles Triangle Theorem
 - In this section, you will write a proof to prove that the base angles of an isosceles triangle are congruent.
- 3. The Isosceles Triangle Theorem Quick Check
- 4. The Triangle Midsegment Theorem
 - In this section, you will write a proof to prove that the segment joining the midpoints of two sides of a triangle is parallel to the third side and half the length.
- 5. The Triangle Midsegment Theorem Quick Check
- 6. Using the Triangle Midsegment Theorem
 - In this section, you will solve problems using your understanding of the relationship between the segment joining the midpoints of two sides of a triangle to the third side.
- 7. Using the Triangle Midsegment Theorem Quick Check
- 8. Medians of a Triangle
 - In this section, you will write a proof to prove that the medians of a triangle meet at a point.
- 9. Medians of a Triangle Quick Check
- 10.The Centroid of a Triangle
 - In this section, you will solve problems using your understanding of the medians of a triangle meeting at the centroid.
- 11. The Centroid of a Triangle Quick Check
- 12.Inequality in One Triangle
 - In this section, you will write proofs to prove the inequality in one triangle theorem and its converse.
- 13. Inequality in One Triangle Quick Check
- 14. Applying Inequalities in One Triangle
 - In this section, you will use the inequality in one triangle theorem and its converse to solve problems.
- 15. Applying Inequalities in One Triangle Quick Check
- 16.Inequality in Triangles
 - In this section, you will write proofs to prove the triangle inequality theorem and its converse.
- 17.Inequality in Triangles Quick Check
- 18. Using the Triangle Inequality Theorem
 - In this section, you will use the triangle inequality theorem and its converse to solve problems.
- 19. Using the Triangle Inequality Theorem Quick Check
- 20.The Hinge Theorem
 - In this section, you will write proofs to prove the hinge theorem and its converse.
- 21. The Hinge Theorem Quick Check
- 22.Applications of the Hinge Theorem

- In this section, you will use the hinge theorem and its converse to solve problems.
- 23.Applications of the Hinge Theorem Quick Check
- 24. Triangle Relationships Apply
- 25. Triangle Relationships Online Practice
- 26. Triangle Relationships Review
- 27. Triangle Relationships Sample Work
- 28. Triangle Relationships Unit Test

8. Semester Exam

- 1. Geometry A Semester Review Online Practice
- 2. Geometry A Semester Exam Review
- 3. Geometry A Semester Exam

Semester B Summary:

In this course, the student will expand their knowledge of geometric relationships as they explore quadrilaterals, triangles, and circles. The student will learn about congruency in parallelograms and create quadrilateral proofs. Similarity in triangles is explored as the student applies the Angle Angle Similarity Postulate and the Triangle Proportionality Theorem. The student will also learn about trigonometric ratios in triangles and apply them in real world applications. Concepts that are unique to circular figures such as radii, tangents, and circumference are explained and applied. The student will learn how to derive the equation of a circle given the center and the radius, and how to use these figures to graph the circle on the coordinate plane. Additionally, this course presents strategies to find the volume of three-dimensional objects including cylinders, spheres, pyramids, and cones. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

Semester B Outline

1. Course Overview

- 1. Geometry Course Overview
- 2. Student Course Introduction Quick Check

2. Quadrilaterals

- 1. Quadrilaterals Introduction
 - As you explore this unit, you will investigate angles related to polygons. You will also discover the properties of different kinds of quadrilaterals, and you will see how quadrilaterals can be classified.
- 2. Angles of Polygons
 - In this section, you will calculate the measures of interior angles of polygons and explain the method used to solve.
- 3. Angles of Polygons Quick Check
- 4. Congruency in Parallelograms
 - In this section, you will write a proof to prove that the opposite sides and opposite angles of a parallelogram are congruent.
- 5. Congruency in Parallelograms Quick Check
- 6. Angles and Sides of a Parallelogram
 - In this section, you will solve problems using your understanding of opposite sides and opposite angles of a parallelogram being congruent.

- 7. Angles and Sides of a Parallelogram Quick Check
- 8. Diagonals of a Parallelogram
 - In this section, you will write a proof to prove that the diagonals of a parallelogram bisect each other.
- 9. Diagonals of a Parallelogram Quick Check
- 10. Using Diagonals of a Parallelogram
 - In this section, you will solve problems using your understanding of diagonals of a parallelogram bisecting each other.
- 11.Using Diagonals of a Parallelogram Quick Check
- 12. Diagonals of a Rectangle
 - In this section, you will write a proof to prove that rectangles are parallelograms with congruent diagonals.
- 13 Diagonals of a Rectangle Quick Check
- 14.Using the Diagonals of a Rectangle
 - In this section, you will solve problems using your understanding of rectangles having congruent diagonals.
- 15. Using the Diagonals of a Rectangle Quick Check
- 16.Quadrilateral Proofs
 - In this section, you will use opposite sides, opposite angles, or diagonals to prove that a quadrilateral is a parallelogram, rectangle, square, or rhombus.
- 17. Quadrilateral Proofs Quick Check
- 18. Relationships within Quadrilaterals
 - In this section, you will solve problems using your understanding of the opposite sides, opposite angles, and diagonals of quadrilaterals.
- 19.Relationships within Quadrilaterals Quick Check
- 20.Quadrilaterals Apply
- 21. Quadrilaterals Review Online Practice
- 22.Quadrilaterals Review
- 23.Quadrilaterals Sample Work
- 24.Quadrilaterals Unit Test

3. Similarity

- 1. Similarity Introduction
- 2. Types of Transformations
 - In this section, you will compare transformations that preserve distance and angle measure to those that do not.
- 3. Types of Transformations Quick Check
- 4. Dilating a Line Part 1
 - In this section, you will describe a dilation of a line not passing through the center of the dilation as one that takes the line to a parallel line.
- 5. Dilating a Line Part 1 Quick Check
- 6. Dilating a Line Part 2
 - In this section, you will describe a dilation of a line passing through the center of the dilation as one that leaves the line unchanged.
- 7. Dilating a Line Part 2 Quick Check
- 8. Dilation by a Scale Factor
 - In this section, you will describe the length of a line segment that is dilated by a given scale factor.
- 9. Dilation by a Scale Factor Quick Check
- 10.Similarity in Triangles

- In this section, you will use similarity transformations to explain the meaning of similarity for triangles.
- 11.Similarity in Triangles Quick Check
- 12.AA Similarity Postulate
 - In this section, you will use the properties of similarity transformations to establish the AA criterion for two triangles to be similar.
- 13.AA Similarity Postulate Quick Check
- 14.SAS and Side SSS Similarity Theorems
 - In this section, you will apply and prove the SAS similarity criterion for triangles.
- 15.SAS and Side SSS Similarity Theorems Quick Check
- 16.Problem Solving with Similar Triangles
 - In this section, you will solve problems using similarity criteria for triangles.
- 17. Problem Solving with Similar Triangles Quick Check
- 18. Proving Relationships with Similarity
 - In this section, you will use similarity criteria for triangles to prove relationships in geometric figures.
- 19. Proving Relationships with Similarity Quick Check
- 20.The Triangle Proportionality Theorem
 - In this section, you will write a proof to prove that a line parallel to one side of a triangle divides the other two sides proportionally.
- 21. The Triangle Proportionality Theorem Quick Check
- 22. Using Triangle Proportionality
 - In this section, you will solve problems by applying the theorem that states that a line that is parallel to one side of a triangle divides the other two sides proportionally.
- 23. Using Triangle Proportionality Quick Check
- 24. Transformations and Similarity
 - In this section, you will use the definition of similarity in terms of similarity transformations to decide if two figures are similar.
- 25.Transformations and Similarity Quick Check
- 26.Similarity Apply
- 27.Similarity Review Online Practice
- 28.Similarity Review
- 29.Similarity Sample Work
- 30.Similarity Unit Test

4. Trigonometry

- 1. Trigonometry Introduction
- 2. The Pythagorean Theorem
 - In this section, you will use triangle similarity to prove the Pythagorean Theorem.
- 3. The Pythagorean Theorem Quick Check
- 4. Applying the Pythagorean Theorem
 - In this section, you will use the Pythagorean Theorem to solve right triangles in applied problems.
- 5. Applying the Pythagorean Theorem Quick Check
- 6. Special Right Triangles
 - In this section, you will find the trigonometric ratios for special right triangles.
- 7. Special Right Triangles Quick Check

- 8. Trigonometric Ratios in Triangles
 - In this section, you will use similarity to understand the meaning of trigonometric ratios of acute angles in right triangles.
- 9. Trigonometric Ratios in Triangles Quick Check
- 10.Problem Solving with Angle Complements
 - In this section, you will explain the relationship between the sine and cosine of complementary angles.
- 11. Problem Solving with Angle Complements Quick Check
- 12. Sine and Cosine of Complementary Angles
 - In this section, you will solve problems using your understanding of the relationship between the sine and cosine of complementary angles.
- 13.Sine & Cosine of Complementary Angles Quick Check
- 14. Problem Solving with Trigonometry
 - In this section, you will use trigonometric ratios to solve right triangles in applied problems.
- 15. Problem Solving with Trigonometry Quick Check
- 16.Real World Applications
 - In this section, you will use triangle properties, similarity, special right triangles, and trigonometric ratios to solve multi-step real-world problems.
- 17.Real World Applications Quick Check
- 18. Trigonometry Apply
- 19. Trigonometry Portfolio
- 20.Trigonometry Online Practice
- 21.Trigonometry Review
- 22.Trigonometry Sample Work
- 23. Trigonometry Unit Test

5. Circles

- 1. Circles Introduction
 - In this unit, you will learn about the types of angles and segments associated with circles and use these to solve problems. You will also learn how to construct figures inscribed in a circle and how to circumscribe a circle around a triangle. Finally, you will learn how to derive the equation of a circle and how to write the equation of a circle in standard form.
- 2. Similar Circles
 - In this section, you will write a proof to prove that all circles are similar.
- 3. Similar Circles Quick Check
- 4. Parts of Circles
 - In this section, you will identify inscribed angles, radii, and chords.
- 5. Parts of Circles Quick Check
- 6. Properties of Inscribed Angles
 - In this section, you will identify an inscribed angle on a diameter as a right angle.
- 7. Properties of Inscribed Angles Quick Check
- 8. Properties of Radii
 - In this section, you will identify and describe radii as perpendicular to tangent lines where the radii intersect the circle.
- 9. Properties of Radii Quick Check
- 10.Circles and Angles
 - In this section, you will identify and describe the relationships among central, inscribed, and circumscribed angles.

- 11.Circles and Angles Quick Check
- 12.Inscribed and Circumscribed Circles
 - In this section, you will identify the steps needed to construct the inscribed circle of a triangle and the circumscribed circle of a triangle.
- 13.Inscribed and Circumscribed Circles Quick Check
- 14. Constructing Inscribed Polygons
 - In this section, you will describe the steps needed to construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.
- 15. Constructing Inscribed Polygons Quick Check
- 16. Properties of Inscribed Quadrilaterals
 - In this section, you will write a proof to prove the properties of angles for a quadrilateral inscribed in a circle.
- 17. Properties of Inscribed Quadrilaterals Quick Check
- 18.Graphing Circles
 - In this section, you will write the equation of a circle when given the center and radius of the circle.
- 19. Graphing Circles Quick Check
- 20.Deriving the Equation of a Circle
 - In this section, you will use the Pythagorean Theorem to derive the equation of a circle with a given center and radius.
- 21.Deriving the Equation of a Circle Quick Check
- 22.Center and Radius of a Circle
 - In this section, you will use the process of completing the square to find the center and radius of a circle given by an equation.
- 23.Center and Radius of a Circle Quick Check
- 24.Circles Apply
- 25.Circles Portfolio
- 26.Circles Online Practice
- 27.Circles Review
- 28.Circles Sample Work
- 29 Circles Unit Test

6. Circumference and Area

- 1. Circumference and Area Introduction
- 2. Circumference of a Circle
 - In this section, you will develop an informal argument for the derivation of the formula for the circumference of a circle.
- 3. Circumference of a Circle Quick Check
- 4. Arc Length
 - In this section, you will use similarity to show that the length of the arc intercepted by an angle is proportional to the radius.
- 5. Arc Length Quick Check
- 6. Angles in Radians
 - In this section, you will describe the radian measure of an angle as the constant of proportionality.
- 7. Angles in Radians Quick Check
- 8. Area of a Circle
 - In this section, you will develop an informal argument for the derivation of the formula for the area of a circle.
- 9. Area of a Circle Quick Check
- 10.Area of a Sector

- In this section, you will develop the formula for the area of a sector.
- 11.Area of a Sector Quick Check
- 12.Circumference and Area Apply
- 13. Circumference and Area Review Online Practice
- 14. Circumference and Area Review
- 15.Circumference and Area Sample Work
- 16.Circumference and Area Test

7. Volume

- 1. Volume Introduction
 - As you explore this unit, you will investigate solid figures and develop ways of finding their volumes without using small cubes. You will also explore how, in addition to the volume of a solid, the material the solid is made of also affects the nature of the solid, such as whether you could pick it up or whether it would float in water. First, you will complete twelve lessons. Then, you will apply what you learned to solve a problem. Last, you will take a quiz.
- 2. Describing Three-Dimensional Objects
 - In this section, you will use geometric shapes, their measures, and their properties to describe objects.
- 3. Describing Three-Dimensional Objects Quick Check
- 4. Cross Sections of Solids
 - In this section, you will identify the shapes of two-dimensional cross-sections of three-dimensional objects.
- 5. Cross Sections of Solids Quick Check
- 6. Rotating Two-Dimensional Objects
 - In this section, you will identify three-dimensional objects that are generated by rotations of two-dimensional objects.
- 7. Rotating Two-Dimensional Objects Quick Check
- 8. Formula for the Volume of a Cylinder
 - In this section, you will develop an informal argument for the derivation of the formula for the volume of a cylinder.
- 9. Formula for the Volume of a Cylinder Quick Check
- 10.Volume of a Cylinder
 - In this section, you will use the volume formula for a cylinder to solve problems.
- 11.Volume of a Cylinder Quick Check
- 12.Formula for the Volume of a Pyramid
 - In this section, you will develop an informal argument for the derivation of the formula for the volume of a pyramid.
- 13. Formula for the Volume of a Pyramid Quick Check
- 14.Volume of a Pyramid
 - In this section, you will use the volume formula for a pyramid to solve problems.
- 15.Volume of a Pyramid Quick Check
- 16.Formula for the Volume of a Cone
 - In this section, you will develop an informal argument for the derivation of the formula for the volume of a cone.
- 17. Formula for the Volume of a Cone Quick Check
- 18.Volume of a Cone
 - In this section, you will use the volume formula for a cone to solve problems.

- 19.Volume of a Cone Quick Check
- 20.Volume of a Sphere
 - In this section, you will use the volume formula for a sphere to solve problems.
- 21. Volume of a Sphere Quick Check
- 22.Density of Objects
 - In this section, you will apply concepts of density based on area and volume in modeling situations.
- 23.Density of Objects Quick Check
- 24.Real World Design Problems
 - In this section, you will apply geometric methods to solve design problems.
- 25.Real World Design Problems Quick Check
- 26.Volume Apply
- 27.Volume Review Online Practice
- 28.Volume Review
- 29.Volume Sample Work
- 30.Volume Unit Test

8. Semester Exam

- 1. Geometry B Semester Review Online Practice
- 2. Geometry B Semester Exam Review
- 3. Geometry B Semester Exam