Course: Geometry   Carbon Career & Technical Institute

Month	Duration	PA Keystone Assessment Anchors	Content	Assessment	Instructional Activities	Resources
Aug. and Sept.	21 Days	**G.2.2.1** Use and/or compare measurements of angles.	**G.2.2.1.1 –** Use the properties of angles formed by intersecting lines to find the measure or missing angles. **G.2.2.1.2 –** Use the properties of angles formed when two parallel lines are cut by a transversal to find the measures of missing angles.	Tests, Quizzes, Homework, Class work, Notebook, Bell Ringers, Class Participation, Study Island Min. 10 assignments and 2 assessments in Powerschool	Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems.	Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.)
Oct.		**G.2.1.2** Solve problems using analytic geometry.	**G.2.1.2.1 –** Calculate the distance and/or midpoint between two points on a number line or on a coordinate plane. **G.2.1.2.2 –** Relate slope to perpendicularity and/or parallelism. **G.2.1.2.3 –** Use slope, distance, and/or midpoint between two points on a coordinate plane to establish properties of a two dimensional shape.	Tests, Quizzes, Homework, Class work, Notebook, Bell Ringers, Class Participation, Study Island Min. 10 assignments and 2 assessments in Powerschool	Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems.	Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.)
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First	15 Days	**G.1.2.1** Recognize and/or apply	**G.1.2.1.1 –** Identify and/or use the properties	Tests, Quizzes,	Direct Instruction,	Textbook, Digital

Last week of Nov. thru Dec.		**G.1.3.1** Write formal proofs and/or use logic statements to construct or validate arguments.	**G.1.3.2.1** – Write, analyze, complete, or identify formal proofs.	Tests, Quizzes, Homework, Class work, Notebook, Bell Ringers, Class Participation, Study Island Min. 12 assignments and 2 assessments in Powerschool	Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems.	Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.)

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Jan.	21 Days	**G.2.2.2** Use and/or develop procedures to determine or describe measures of perimeter, circumference, and/or area. **G.2.2.3** Describe how a change in one dimension of a two dimensional figure affects other measurements of that figure. **G.2.2.4** Apply probability to practical situations.	**G.2.2.2.1** Estimate area, perimeter, or circumference of an irregular figure. **G.2.2.2.2** Find the measurement of a missing length, given the perimeter, circumference, or area. **G.2.2.2.3** Find the side lengths of a polygon with a given perimeter to maximize the area of the polygon. **G.2.2.2.4** Develop and/or use strategies to estimate the area of a compound/composite figure. **G.2.2.3.1** Describe how a change in the linear dimension of a figure affects its perimeter, circumference, and area. **G.2.2.2.5** Use area models to find probability.	Tests, Quizzes, Homework, Classwork, Notebook, Bell Ringers, Class Participation, Study Island Min. 8 assignments and 2 assessments in Powerschool	Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems.	Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.)

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Feb.	21 Days	**G.2.3.1** Use and/or develop procedures to determine or describe measures of surface area and/or volume. **G.2.2.3** Describe how a change in one dimension of a three dimensional figure affects other measurements of that figure.	**G.2.3.1.1** Calculate the surface area of prisms, cylinders, cones, pyramids, and/or spheres. **G.2.3.1.2** Calculate the volume of prisms, cylinders, cones, pyramids, and/or spheres. **G.2.3.1.3** Find the measurement of a missing length given the surface area or volume. **G.2.3.2.1** Describe how a change in the linear dimension of a figure affects its surface area or volume.	Tests, Quizzes, Homework, Classwork, Notebook, Bell Ringers, Class Participation, Study Island Min. 8 assignments and 2 assessments in Powerschool	Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems.	Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.)
Mar.	19 Days	**G.2.1.1** Solve problems involving right triangles.	**G.2.1.1.1** – Use the Pythagorean Theorem to write and/or solve problems involving right triangles. **G.2.1.1.2** – Use trigonometric ratios to write and/or solve problems involving right triangles.	Tests, Quizzes, Homework, Class work, Notebook, Bell Ringers, Class Participation, Study Island Min. 10 assignments and 2 assessments in Powerschool	Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems.	Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.)

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Apr.	18 Days	**G.1.3.1** Use properties of	**G.1.3.1.1** – Identify and/or use properties of	Tests, Quizzes,	Direct Instruction, One-	Textbook, Digital

| May | | **G.1.1.1** Identify and/or use parts of circles and segments associated with circles, spheres, and cylinders.

G.2.2.2 Use and/or develop procedures to determine or describe measures of perimeter, circumference, and/or area. | **G.1.1.1.1 –** Identify, determine, and/or use the radius, diameter, segment, and/or tangent of a circle.

G.1.1.1.2 – Identify, determine, and/or use the arcs, semicircles, sectors, and/or angles of a circle.

G.1.1.1.3 – Use chords, tangents, and secants to find missing arc measures or missing segment measures.

G.1.1.1.4 – Identify and/or use the properties of a sphere or cylinder.

G.2.2.2.5 Find the area of a sector of a circle. | Tests, Quizzes, Homework, Class work, Notebook, Bell Ringers, Class Participation, Study Island | Direct Instruction, One-to-One Instruction, Group Work, Classwork, Homework, Demonstrations, Tutoring, Real World Problems. | Textbook, Digital Interactive Text, Worksheets (KUTA, Dale Seymore EdHelper), Study Island, Calculators, Video Streaming, Websites (SAS, Glencoe, etc.) |