



MEA 2014-2015

Teacher: Claudia Valle

Start Date:

Course: Geometry B

Student:

Projected End Date:

Unit 1: Similarity						
Assignment #	Activity	Objective: Students will understand how to recognize similar polygons.	Essential Question	Date Completed	Grade	TEKS
1	Ratio and Proportions					G.5.B, G.11.D
2	Ratios in Similar Polygons					G.5.B, G.11.A, G.11.B
3	Triangle Similarity: AA, SSS, and SAS					G.5.B, G.9.B, G.11.A, G.11.B, G.11.D
4	Applying Properties of Similar Triangles					G.2.A
5	Using Proportional Relationships					G.1.B, G.11.A, G.11.B, G.11.D
6	Dilations and Similarity in the Coordinate Plane					G.9.B, G.11.A
7	Unit 1 Test					G.1.B, G.2.A, G.3.B, G.5.B, G.9.B, G.11.A, G.11.B, G.11.D
			What is the relationship between the perimeters and areas of similar polygons? How can you decide if two triangles are similar?			1.A, 1C, 1E, 3C, 3D, 3F, 3G, 4I
						1.A, 1C, 1E, 3C, 3D, 3F, 3G, 4J, 5F, 5G
						1.A, 1C, 1E, 3C, 3D, 3F, 3G, 4I
						1.A, 1C, 1E, 3C, 3D, 3F, 3G, 4J
						1.E, 4K
Unit 2: Right Triangles and Trigonometry						
Assignment #	Activity	Objective: Students will understand how to use various methods to solve real life problems involving right triangle.	Essential Question	Date Completed	Grade	TEKS
8	Similarity in Right Triangles					G.5.B, G.5.D, G.7.A, G.8.C, G.11.A, G.11.B, G.11.C
9	Trigonometric Ratios					G.5.D, G.7.A, G.8.C, G.11.B, G.11.C
10	Solving Right Triangles					G.5.D, G.11.C
11	Angles of Elevation and Depression					G.5.D, G.11.C
12	Law of Sines and Law of Cosines					G.5.B, G.5.D, G.7.A, G.11.A, G.11.C
13	Vectors					G.1.B, G.7.A, G.11.C
14	Unit 2 Test					G.1.B, G.5.B, G.5.D, G.7.A, G.8.C, G.11.A, G.11.B, G.11.C

Unit 2: Right Triangles and Trigonometry

Objective: Students will understand how to use various methods to solve real life problems involving right triangle.

Essential Question

Date Completed

Grade

TEKS

ELPS

Unit 3: Perimeter, Circumference, and Area					
Objective: Students will understand how to recognize and find the perimeter, circumference, and areas of different polygons					
Assignment #	Activity	Essential Question	Date Completed	Grade	ELPS
15	Formulas for Triangles and Quadrilaterals	<p>How can you find the area of regular polygons?</p> <p>How can you find areas of real-life regions containing circles, parts of circles or other polygons?</p> <p>How can you estimate the likelihood that an event will occur?</p>			G.3.C, G.3.E, G.5.A, G.8.C
16	Formulas for Circles, and Regular Polygons				G.5.A, G.8.A, G.8.C, G.11.D
17	Composite Figures				G.8.A
18	Perimeter and Area in the Coordinate Plane				G.7.A, G.7.B, G.8.A
19	Effects of Changing Dimensions Proportionally				G.5.A, G.5.B, G.11.D
20	Geometric Probability				G.8.A
21	Unit 3 Test			G.3.C, G.3.E, G.5.A, G.5.B, G.7.A, G.7.B, G.8.A, G.8.C, G.11.D	1C, 1E, 5F
Unit 4: Solid Geometry					
Objective: Students will understand how to use and apply the surface area and volume formulas for various solids.					
Assignment #	Activity	Essential Question	Date Completed	Grade	ELPS
22	Solid Geometry	<p>What is the difference between a prism and a pyramid?</p> <p>What are some real-life examples of where you would need to find the volume of a figure?</p>			G.6.A, G.6.B, G.9.D
23	Representations of Three-Dimensional Figures				G.6.C, G.9.D
24	Formulas in Three Dimensions				G.6.A, G.7.C, G.9.D
25	Surface Area of Prisms and Cylinders				G.6.B, G.8.D, G.11.D
26	Surface Area of Pyramids and Cones				G.6.B, G.8.D, G.11.D
27	Volume of Prisms and Cylinders				G.6.B, G.8.D, G.11.D
28	Volume of Pyramids and Cones				G.8.D, G.11.D
29	Spheres				G.8.D, G.11.D
30	Unit 4 Test				G.6.A, G.6.B, G.6.C, G.7.C, G.8.D, G.9.D, G.11.D

Unit 5: Circles						
Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
31	Lines that Intersect Circles				G.1.A, G.2.A, G.2.B, G.9.C	1C, 1E, 2D, 5G
32	Arcs and Chords				G.1.A, G.2.A, G.2.B, G.8.C, G.9.C	1C, 1E, 2D, 5G
33	Sector Area and Arc Length				G.1.A, G.1.B, G.8.B, G.9.C	1C, 1E, 2D, 5G
34	Inscribed Angles	What is the difference between central angles and inscribed angles? How can you use angles formed by segments and/or lines intersecting circles to solve problems?			G.1.A, G.2.A, G.2.B, G.5.B, G.9.C	1C, 1E, 2D, 5G
35	Angle Relationships in Circles	What are the components for the equation of a circle?			G.1.A, G.2.A, G.5.A, G.5.B, G.9.C	1C, 1E, 2D, 5G
36	Segment Relationships in Circles				G.1.A, G.2.B, G.5.A	1C, 1E, 2D, 5G
37	Circles in the Coordinate Plane				G.1.A, G.1.B, G.2.A, G.2.B, G.5.A, G.5.B, G.8.B, G.8.C, G.9.C	1C, 1E, 2D, 5G
38	Unit 5 Test					1E, 4K
Unit 6: Transformational Geometry						
Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
39	Reflections				G.2.A, G.2.B, G.7.A, G.10.A	1C, 2E, 3D, 4F, 5F
40	Translations				G.2.A, G.2.B, G.7.A, G.10.A	1C, 2E, 3D, 4F, 5F
41	Rotations				G.2.A, G.2.B, G.7.A, G.10.A	1C, 2E, 3D, 4F, 5F
42	Compositions of Transformations	What is a transformation, and what are the 3 basic types of transformations?			G.5.C, G.10.A	1C, 2E, 3D, 4F, 5F
43	Symmetry	How can vectors be used to describe translations?			G.2.B, G.5.C, G.10.A	1C, 2E, 3D, 4F, 5F
44	Tessellations				G.5.C	1C, 2E, 3D, 4F, 5F
45	Dilations	How can a figure be transformed multiple times?			G.2.A, 11.A, G.11.B, G.11.D	1C, 2E, 3D, 4F, 5F
46	Unit 6 Test				G.2.A, G.2.B, G.5.C, G.7.A, G.10.A, G.11.A, G.11.B, G.11.D	1E, 4K

Objective: Students will understand how to identify the parts of a circle.

Objective: Students will understand how to execute various types of transformations.

