

MEA 2014-2015

Teacher: Claudia Valle

Start Date:

Course: Geometry A

Student:

Projected End Date:



Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
<p>Objective: Students will understand and use the basic undefined terms and defined terms of geometry. Students will understand how to measure and describe angles and segments.</p>						
1	Understanding Points, Lines, and Planes				G.1.A, G.7.A	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
2	Measuring and Constructing Segments	What are some real life situations that represent points, lines, and planes?			G.2.A, G.2.B, G.3.B, G.7.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
3	Measuring and Constructing Angles	How can you use measurements to describe, compare, and make sense of real-life objects?			G.1.A, G.1.B, G.2.A, G.2.B, G.3.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
4	Pairs of Angles	How can you best choose the most appropriate measurement technique to use in a situation?			G.1.A, G.2.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
5	Midpoint and Distance in the Coordinate Plane				G.1.A, G.7.A, G.7.C, G.8.C	1E, 4F, 4J, 4K
6	Unit 1 Test				G.1.A, G.1.B, G.2.A, G.2.B, G.3.B, G.7.A, G.7.C, G.8.A, G.8.C	1E, 4K
<p>Objective: Students will understand how to use inductive and deductive reasoning to make conclusions. Students will understand how algebraic and geometric properties can be used to justify conjectures.</p>						
Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
7	Using Inductive Reasoning to Make Conjectures				G.2.B, G.3.D, G.5.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
8	Conditional Statements				G.3.A, G.3.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
9	Using Deductive Reasoning to Verify Conjectures	What are some real life situations where conditional statements are relevant? How can strong communication skills enhance the mathematical experience?			G.2.B, G.3.B, G.3.C, G.3.E	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
10	Biconditional Statements and Definitions				G.3.A, G.3.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G, 4I, 5E.iii
11	Algebraic Proof				G.3.B, G.3.C, G.3.E	5G
12	Geometric Proof				G.1.A, G.3.B, G.3.C, G.3.E	5G
13	Flowcharts and Paragraph Proofs				G.1.A, G.2.B, G.3.C, G.3.E	4J, 4K, 5G
14	Unit 2 Test				G.1.A, G.2.B, G.3.A, G.3.B, G.3.C, G.3.D, G.3.E, G.5.B	1E, 4K

Objective: Students will understand the properties of parallel and perpendicular lines and how they are relevant in real life.
 Students will understand how to justify that lines are parallel using algebra and geometric proofs.

Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
15	Lines and Angles				G.1.A	1A, 1C, 1E, 1F, 4F, 4J, 4K, 5B, 5F, 5G
16	Angles Formed by Parallel Lines and Transversals				G.3.C, G.9.A	1A, 1C, 1E, 1F, 4F, 4J, 4K, 5B, 5F, 5G
17	Proving Lines Parallel	What are some real life examples of parallel, perpendicular, and skew lines? How can the slope be used to identify parallel and perpendicular lines in a coordinate plane?			G.1.A, G.3.C, G.7.C	1A, 1C, 1E, 1F, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
18	Perpendicular Lines				G.1.A, G.2.A, G.3.C, G.9.A	1A, 1C, 1E, 1F, 4F, 4J, 4K, 5B, 5F, 5G
19	Slopes of Lines				G.7.B, G.7.C	1A, 1C, 1E, 1F, 4F, 4J, 4K, 5B, 5F, 5G
20	Lines in the Coordinate Plane				G.3.C, G.7.B	1A, 1C, 1E, 1F, 4F, 4J, 4K, 5B, 5F, 5G
21	Unit 3 Test				G.1.A, G.2.A, G.3.C, G.7.B, G.7.C, G.9.A	1E

Objective: Students will understand how to use different postulates and theorems to prove two triangles are congruent.
 Students will understand how to use properties triangles to solve problems.

Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
22	Classifying Triangles				G.1.A	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
23	Angle Relationships in Triangles				G.1.A, G.2.B	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
24	Congruent Triangles	How do you decide which theorem or postulate to use to show congruence among triangles?			G.2.B, G.10.B	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
25	Triangle Congruence: SSS and SAS	How can you decide if enough information is given to determine if two triangles are congruent?			G.2.A, G.10.B	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
26	Triangle Congruence: ASA, AAS, and HL				G.1.A, G.2.A, G.9.B, G.10.B	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
27	Triangle Congruence: CPCTC				G.1.A, G.7.A, G.10.B	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
28	Isosceles and Equilateral Triangles				G.2.B, G.10.B	1A, 1C, 1E, 1F, 2D, 2E, 2J, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
29	Unit 4 Test				G.1.A, G.2.A, G.2.B, G.7.A, G.9.B, G.10.B	1E

Objective: Students will understand how to identify and apply perpendicular and angle bisectors, medians, and altitudes to find segment lengths in triangles. Students will understand how to use the Triangle Inequality Theorem.

Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
30	Perpendicular and Angle Bisectors	<p>What is the difference between medians and altitudes? How can you identify which side of a triangle is the longest and which angle in a triangle is the largest?</p>			G.3.B, G.7.B	1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
31	Bisectors of Triangles				G.2.A, G.3.B, G.7.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
32	Medians and Altitudes of Triangles				G.2.A, G.3.B, G.7.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
33	The Triangle Midsegment Theorem				G.2.A, G.3.B, G.7.B, G.9.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
34	Indirect Proof and Inequalities in One Triangle				G.3.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
35	Inequalities in Two Triangles				G.3.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
36	The Pythagorean Theorem				G.5.D, G.8.C, G.11.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
37	Applying Special Right Triangles				G.5.D, G.7.B	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
38	Unit 5 Test			G.2.A, G.3.B, G.5.D, G.7.B, G.8.C, G.9.B, G.11.C	1E, 4K	

Objective: Students will understand how to identify various types of quadrilaterals
 Students will understand how to use properties of special quadrilaterals to solve real-life problems.

Assignment #	Activity	Essential Question	Date Completed	Grade	TEKS	ELPS
39	Properties and Attributes of Polygons				G.2.B, G.3.B, G.5.B, G.7.A	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
40	Properties of Parallelograms				G.2.B, G.3.B, G.3.E, G.7.A, G.7.B, G.7.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
41	Conditions for Parallelograms				G.2.A, G.2.B, G.3.B, G.3.E, G.7.A, G.7.B, G.7.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
42	Properties of Special Parallelograms	What methods are used to prove a quadrilateral is a parallelogram? How can you identify special quadrilaterals based on limited information?			G.2.A, G.2.B, G.3.B, G.3.E, G.7.A, G.7.B, G.7.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
43	Conditions for Special Parallelograms				G.2.A, G.2.B, G.3.B, G.3.E, G.7.A, G.7.B, G.7.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
44	Properties of Kites and Trapezoids				G.2.A, G.2.B, G.3.B, G.3.E, G.7.A, G.7.B, G.7.C	1A, 1C, 1E, 1F, 2D, 2E, 2I, 3C, 3D, 3F, 3G, 4F, 4J, 4K, 5B, 5F, 5G
45	Unit 6 Test				G.2.A, G.2.B, G.3.B, G.3.E, G.5.B, G.7.A, G.7.B, G.7.C, G.9.B	1E, 4K