Topic 2 Outline Lesson Plan - GEOMETRY

**LINES, ANGLES, AND TRIANGLES**

**9/26 Tuesday – Section 4.1 – Angles Form by Intersecting Lines (MAFS.912.1-G.CO.3.9)**

**Essential Question:** How can you find the measure of angles form by intersecting lines?

**Vocabulary:** vertical angles, flow proof, complementary angles, supplementary angles

**Classwork:** Evaluate pg. 169 # 1-12 all

**Home Learning:** Complete any unfinished assignments

**9/27 Wednesday – Section 4.2 – Transversal and Parallel Lines (MAFS.912.-G.CO.3.9)**

**Essential Question:** How can you prove and use Theorem about angles form by Transversals that intersect Parallel Lines?

**Vocabulary:** Transversal, Corresponding Angles, Same Side Interior Angles, Alternate Interior Angles, Alternate Exterior Angles

**Classwork:** Evaluate pg. 180-182 # 1-17 all

**Home Learning:** Complete any unfinished assignments

**9/28 – 9/29 Thursday/Friday – Section 4.3 – Proving Lines are Parallel (MAFS.912.-G.CO.3.9/.4.12)**

**Essential Question:** How can you prove that two lines are parallel?

**Vocabulary:** Converse

**Classwork:** Evaluate pg. 190-193 # 1-12 all

**Home Learning:** Complete any unfinished assignments

**10/3 – 10/4 Tuesday/Wednesday – Section 4.4 – Perpendicular Lines (MAFS.912.1-G.CO.3.9/.4.12)**

**Essential Question:** What are the key ideas about Perpendicular bisector of a segment?

**Vocabulary:** indirect prove

**Classwork:** Evaluate pg. 200-202 # 1-14 all

**Home Learning:** Complete any unfinished assignments

**10/5 – 10/6 Thursday/Friday – Section 4.5 – Equations of Parallel and Perpendicular Lines (MAFS.912.G-GPE.2.5)**

**Essential Question:** How can you find the equation of a line that is parallel or Perpendicular to a given line?

**Vocabulary:** None

**Classwork:** Evaluate pg. 209-211 # 1-19 all

**Home Learning:** Complete any unfinished assignments

**10/9 – 10/10 Monday/Tuesday – Section 5.1 – Exploring what makes Triangles Congruent (MAFS.912.-G.CO.2.7)**

**Essential Question:** How can you show that two Triangles are Congruent?

**Vocabulary:** Biconditional, Contrapositive

**Classwork:** Evaluate pg. 225-228 # 1-15 all

**Home Learning:** Complete any unfinished assignments

**10/11 – 10/12 Wednesday/Thursday – Section 5.2 – ASA Triangle Congruence (MAFS.912.-G.CO.2.8,2.7,3.10,SRT.2.5)**

**Essential Question:** What does the ASA Triangle Congruence Theorem tell you about Triangles?

**Vocabulary:** ASA Triangle Congruence Theorem

**Classwork:** Evaluate pg. 237-243 # 3-7, 14, 20

**Home Learning:** Complete any unfinished assignments

**10/13 – 10/16 Friday/Monday – Section 5.3 – SAS Triangle Congruence (MAFS.912.-G.CO.2.8,2.7,3.10,SRT.2.5)**

**Essential Question:** What does the SAS Triangle Theorem tells you about triangles?

**Vocabulary:** SAS Triangle Congruence Theorem

**Classwork:** Evaluate pg. 249-253 # 1-7, 12

**Home Learning:** Complete any unfinished assignments

**10/17 – 10/18 Tuesday/Wednesday – Section 5.4 – SSS Triangle Congruence (MAFS.912.-G.CO.2.8,2.7,3.10,SRT.2.5)**

**Essential Question:** What does the SSS Triangle Congruence Theorem tells you about triangles?

**Vocabulary:** SSS Triangle Congruence Theorem

**Classwork:** Evaluate pg. 261-264 # 2-17 all

**Home Learning:** Complete any unfinished assignments

**10/19 – 10/20 Thursday/Friday – Section 6.1 – SAS Justifying Constructions (MAFS.912.-G.CO.4.12,.4.13,SRT.2.5)**

**Essential Question:** How can you be sure that the result of a construction is valid?

**Vocabulary:** None

**Classwork:** Evaluate pg. 278-280 # 3-8, 11,13,14

**Home Learning:** Complete any unfinished assignments

**10/23 Monday – Section 6.2 – AAS Triangle Congruence (MAFS.912.-G.CO.SRT.2.5)**

**Essential Question:** What does the AAS Congruence Theorem tells you about two triangles?

**Vocabulary:** AAS Triangle Congruence Theorem

**Classwork:** Evaluate pg. 290-292 # 1-21 all

**Home Learning:** Complete any unfinished assignments

**10/24 Tuesday – Section 6.3 – HL Triangle Congruence (MAFS.912.-G.CO.SRT.2.5,CO.2.8)**

**Essential Question:** What does the HL Triangle Congruence Theorem tells you about two triangles?

**Vocabulary:** HL Triangle Congruence Theorem

**Classwork:** Evaluate pg. 298-300 # 2-13 all

**Home Learning:** Complete any unfinished assignments

**10/25 Wednesday – Section 7.1 – Interior and Exterior Angles (MAFS.912.-G.CO.3.10)**

**Essential Question:** What can you say about interior and exterior angles of a triangle and other polygons?

**Vocabulary:** Interior angle, auxiliary line, exterior angle, remote interior angle

**Classwork:** Evaluate pg. 320-323 # 2-16, 20,21

**Home Learning:** Complete any unfinished assignments

**10/26 Thursday – Section 7.2 – Isosceles and Equilaterals Triangles (MAFS.912.-G.CO.3.10)**

**Essential Question:** What are the special relationships among angles and sides in isosceles and equilateral triangles?

**Vocabulary:** Isosceles triangles, legs, vertex angles, base angles, isosceles triangle theorem, equilateral triangle, equiangular triangle

**Classwork:** Evaluate pg. 334-335 # 4-11, 16

**Home Learning:** Complete any unfinished assignments

**10/30 – 10/31 Monday/Tuesday – Section 7.3 – Triangle Inequalities (MAFS.912.-G.SRT.2.5)**

**Essential Question:** How can you use inequalities to describe the relationship among side lengths and angle measures in a triangle?

**Vocabulary:** Triangle Inequality Theorem

**Classwork:** Evaluate pg. 348-349 # 1-17 all

**Home Learning:** Complete any unfinished assignments

**11/1 Wednesday –** Test Review

**11/2 Thursday –** Topic 1 & 2 Assessment