Topic 3 Outline Lesson Plan - GEOMETRY

**LINES, ANGLES, AND TRIANGLES PART B**

**11/3 Friday – Section 8.1 – Perpendicular Bisector of a Triangle (MAFS.912.G-C.1.3, CO.3.10)**

**Essential Question:** How can you use perpendicular bisectors to find the point that is equidistant from all the vertices of a triangle?

**Vocabulary:** circumscribed, circumcircle, circumcenter, concurrent, point of congruency

**Classwork:** Evaluate pg. 365-368 # 1-13 all online

**Home Learning:** Complete section 8.1, definitions

**11/6 Monday – Section 8.2 – Angle Bisectors of Triangles (MAFS.912.G-C.1.3, CO.3.10)**

**Essential Question:** How can you use angle bisectors to find the point that is equidistant from all the sides of a triangle?

**Vocabulary:** distance from a point to a line, angle bisector theorem, converse of angle bisector theorem, inscribed, incircle, inscribed circle, incenter, incenter theorem

**Classwork:** Evaluate pg. 375-377 # 1-15 all online

**Home Learning:** Complete section 8.2, definitions

**11/7 – 11/8 Tuesday/Wednesday – Section 8.3 – Medians and Altitudes of Triangles (MAFS.912.G-CO.3.10)**

**Essential Question:** How can you find the balance point or center of gravity of a triangle?

**Vocabulary:** Median, centroid theorem, centroid, altitude, orthocenter

**Classwork:** Evaluate pg. 390-392 # 1-22 all online

**Home Learning:** Complete section 8.3, definitions

**11/9 – 11/13 Thursday/Monday – Section 8.4 – Mid-Segment of Triangles (MAFS.912.G-CO.3.10)**

**Essential Question:** How are the segments that join the midpoints of a triangle’s sides related to the triangle’s sides?

**Vocabulary:** midsegment, triangle mid-segement theorem

**Classwork:** Evaluate pg. 399-401 # 1-15 all online

**Home Learning:** Complete section 8.4, definitions