Hansen Jr/Sr High School Curriculum Map

Geometry

Mr. Rife

Course Overview (Learning Outcomes)

Week	Unit/Chapter/Topics	Resources	Standards
1	Entrance Exam, Pre-Test	**Textbook, Online workbook**	
2-4	Chapter 1- Tools of Geometry • Nets and Drawings • Points, Lines, and Planes • Measuring Segments • Measuring Angles • Midpoint and Distance • Perimeter, Circumference, and Area		**HSG.CO.A.1** **HSG.CO.D.12** **HSG.GPE.B.6**
5-7	Chapter 2 – Reasoning and Proof		**HSG.CO.C.9** **HSG.CO.C.10**

	• Patterns and Inductive Reasoning • Conditional Statements • Biconditionals and Definitions • Deductive Reasoning • Proving Angles Congruent		**HSG.CO.C.11**
7-10	Chapter 3 – Parallel and Perpendicular Lines • Lines and Angles • Properties of Parallel Lines • Proving Lines Parallel • Parallel and Perpendicular Lines • Parallel Lines and Triangles • Equations of Lines • Slopes of Parallel and Perpendicular Lines		**HSG.CO.A.1** **HSG.CO.C.9** **HSG.MG.A.1** **HSG.MG.A.3** **HSG.CO.C.10** **HSG.GPE.B.5**
11-13	Chapter 4 – Congruent Triangles • Congruent Figures • Congruence by SSS and SAS • Congruence by ASA and AAS • Corresponding Parts of Congruent Triangles • Isosceles and Equilateral Triangles		**HSG.CO.A.5** **HSG.CO.B.6** **HSG.CO.C.10** **HSG.SRT.B.5** **HSG.CO.B.7** **HSG.CO.B.8**

	• Congruence in Right Triangles • Congruence in Overlapping Triangles		
14-16	Chapter 5 – Relationships Within Triangles • Perpendicular and Angle Bisectors • Bisectors in Triangles • Medians and Altitudes • Inequalities in One Triangle • Inequalities in Two Triangles		**HSG.CO.C.9** **HSG.CO.C.10** **HSG.C.A.3** **HSG.SRT.B.5**
17-19	Chapter 6 – Polygons and Quadrilaterals ● The Polygon Angle-Sum Theorems ● Kites and Trapezoids ● Properties of Parallelograms ● Proving a Quadrilateral is a Parallelogram ● Properties of Special Parallelograms ● Conditions of Special Parallelograms		**HSG.SRT.B.5** **HSG.C.A.3** **HSG.CO.C.11**
20-22	Chapter 7 – Similarity ● Ratios and Proportions ● Similar Polygons ● Proving Triangles Similar ● Similarity in Right Triangles		**HSG.CO.A.2** **HSG.CO.A.5** **HSG.SRT.A.1** **HSG.SRT.A.1.A** **HSG.SRT.A.1.B**

	• Proportions in Triangles		**HSG.SRT.A.2** **HSF.C.A.1** **HSG.SRT.A.3** **HSG.SRT.B.4** **HSG.CO.C.10**
23-26	Chapter 8 – Right Triangles and Trigonometry • Right Triangles and the Pythagorean Theorem • Special Right Triangles • Trigonometric Ratios • Law of Sines • Law of Cosines		**HSG.SRT.B.4** **HSG.SRT.C.6** **HSG.SRT.C.7** **HSG.SRT.C.8** **HSG.SRT.D.10** **HSG.SRT.D.11**
27-29	Chapter 9 – Area • Parallelograms and Triangles • Trapezoids, Rhombuses, and Kites • Regular Polygons • Perimeters and Areas of Similar Figures • Circles and Arcs • Area of Circles and Sectors		**HSG.GPE.B.4** **HSG.GPE.B.7** **HSG.GPE.B.6** **HSG.CO.C.10** **HSG.CO.A.1** **HSG.GPE.A.1** **HSG.GPE.A.2**
30-33	Chapter 10 – Surface Area and Volume • Space Figures and Cross Sections • Surface Areas of Prisms and Cylinders		**HSG.GMD.B.4** **HSG.GMD.A.1** **HSG.GMD.A.3** **HSG.MG.A.1** **HSG.MG.A.2** **HSG.GMD.B.4**

	● Pyramids and Cones ● Volume of Prisms and Cylinders ● Pyramids and Cones ● Surface Area and Volume of Spheres		
34-35	Chapter 11 – Circles ● Tangent Lines ● Chords and Arcs ● Inscribed Angles ● Angle Measures and Segment Lines ● Secant Lines and Segments		**HSG.CO.A.1** **HSG.C.B.S** **HSG.C.A.2** **HSG.C.A.4**