



Hansen Jr/Sr High School Curriculum Map

Pre-Algebra

Mr. Rife

Course Overview (Learning Outcomes)

Week	Unit/Chapter/Topics	Resources	Standards
1	Entrance Exam, Pre-Test	Open-Up Resources, Grow Publications, and Online Resources	
2-5	Unit 1- Rigid Transformations and Congruence <ul style="list-style-type: none">• Rigid Transformations• Properties of Rigid Transformations• Congruence• Angles in a Triangle		8.G.A.1 8.G.A.3 8.G.A.5
6-9	Unit 2 – Dilations, Similarity, and Introducing Slope <ul style="list-style-type: none">• Dilations		8.EE.B.6 8.G.A.2 8.G.A.3

	<ul style="list-style-type: none"> • Similarity • Slope 		8.G.A.4 8.G.A.5
10-14	Unit 3 – Linear Relationships <ul style="list-style-type: none"> • Proportional Relationships • Representing Linear Relationships • Finding Slopes • Linear Equations. 		8.EE.B.5 8.EE.B.6 8.G.A.1 G.GPE.B.5 8.EE.C.7 8.EE.C.8a 8.EE.C.8
15-18	Unit 4 – Linear Equations and Linear Systems <ul style="list-style-type: none"> • Linear Equations with One Variable • Systems of Linear Equations 		A.REI.6 8.EE.C.7a 8.EE.C.7b 8.EE.C.8a 8.EE.C.8b 8.EE.C.8c
19-22	Unit 5 – Functions and Volume <ul style="list-style-type: none"> • Inputs and Outputs • Representing and Interpreting Functions • Linear Functions and Rates of Change • Cylinders and Cones • Dimensions and Spheres 		8.F.A.1 8.F.A.2 8.F.A.3 8.F.B.4 8.F.B.5
23-27	Unit 6 – Associations in Data <ul style="list-style-type: none"> • Associations in Numerical Data • Associations in Categorical Data 		8.SP.A.1 8.SP.A.2 8.SP.A.3 8.SP.A.4

28-31	Unit 7 – Exponents and Scientific Notation <ul style="list-style-type: none"> ● Exponent Rules ● Scientific Notation 		8.EE.A.1 8.EE.A.3 8.EE.A.4
32-35	Unit 8 – Pythagorean Theorem and Irrational Numbers <ul style="list-style-type: none"> ● Side Lengths and Area of a Square ● The Pythagorean Theorem ● Side Lengths and Volumes of Cubes ● Decimal Representation of Rational and Irrational Numbers 		8.EE.A.2 8.F.B.4 8.G.B.6 8.G.B.7 8.NS.A.1
36	FINAL WEEK	Review and Final	