

EDISON HIGH SCHOOL SUS Home of the Vikings

Grade:	9-12	Subject	: Geome	try Semester	1 & 2	Team Members:	Kevin Pledger	Punny Po	
Stand	ard Descriptio	n	Exam	ple Rigor	Prerec	quisite Skills	Common Assessment	When Taught?	Extension Standards
What is the o learned? frien	essential standa Describe in stu dly vocabulary	nrd to be dent-	What does p work look li example and	roficient student ke? Provide an l/or description.	What pri skills, and/ is/are need to master	ior knowledge, /or vocabulary led for a studer • this standard?	t What assessment(s) will be used to measure student mastery?	When will this standard be taught?	What will we do when students have learned the essential standard(s)?
1. Student construc demonst of congr	s will be able t tion skills to rate an unders uence.	tanding	 Using or and strai Reconstr and a lin Draw a lin Draw a lin through a through a Draw an Draw a lin perpendial line 	ly a compass ght edge: uct an angle e segment ine parallel another line a given point. angle bisector. ine cular to a given	Vocabula Point Line Plane Line S Ray Paralle Perper Angle Comp Straig Congr Prerequis Angle Under degree	Segment el ndicular e Bisector vass ht Edge ruent site Skills: es rstanding of e measure	 District generated summative assessments Teacher generated formative assessments 	Semester 1	 Students will explain/present steps for construction. Students will create tutorial videos for constructions.

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2.	Students will be able to perform transformations (by rotation, reflections, translations, and dilations)	-Recognize and apply each of the transformations -Determine and explain if a transformation is an isometry	Vocabulary:TranslationRotationReflection	•	District generated summative assessments Teacher generated formative assessments	Semester 1	-Students will perform composite transformations
3.	Students will be able to prove triangles congruent by theorems.	 Explain/prove two triangles are congruent by using congruent triangle theorems 	 Vocabulary: Side-Side-Side theorem Side-Angle-Side theorem Angle-Angle-Side theorem Angle-Side-Angle theorem Vertical Angles Transversal Alternating Interior Angles Alternating Exterior Angles Alternating Exterior Angles Prerequisite Skills: Recognize various polygon 	-	District generated summative assessments Teacher generated formative assessments	Semester 1	Students will use a two column or paragraph proof to prove two triangles are congruent

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4	I. Students will be able to apply different similarity theorems		Explain/prove two triangles are congruent by using similar triangle theorems.	Vo • • Pro	cabulary: Angle-Angle similarity Side-Side-Side Similarity Side-Angle-Side Similarity erequisite Skills: Ratios & Proportions	•	District generated summative assessments Teacher generated formative assessments	Semester 1	Students will use a two column or paragraph proof to prove two triangles are congruent
5	5. Students will be able to apply trigonometric ratios in right triangles.	•	Recognize Sine, Cosine, and Tangent Ratios within right triangles Apply trig inverses to find unknown angles.	Vo Pro	cabulary: Sine Ratio Cosine Ratio Tangent Ratio Theta erequisite Skills: Exponents & square roots Simplify radicals Reading a Trigonometry Table Apply the Pythagorean Theorem Solving proportions	Ő	District generated summative assessments -Teacher generated formative assessments	Semester 1	Students will investigate special right triangles

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 6. Students will be able to find arc lengths and areas of sectors of circles. 	Apply tools and formulas to find lengths and areas of sectors and arcs	 Vocabulary: Radius Diameter Circumference Chord Tangent line Secant line Major Arc Minor Arc Prerequisite Skills: Finding Circumference of a circle given radius of diameter. Finding Area of a circle given radius of diameter. 	 District generated summative assessments Teacher generated formative assessments 	Semester 2	Students will explain or synthesis the formula for arc length Students will explain or synthesis the formula for sector Students will calculate the area of a triangle created by two radii and a chord within a circle.

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7. Students will be able to apply algebraic concepts to coordinate geometric situations.	-	Find the midpoint, distance, and endpoint of a line segment as well as perform both internal and external segment division	Vo Pro	cabulary:MidpointDistancePerimeterMidsegmentDirected linesegmentAreaerequisite Skills:Graphing in thecoordinate plane;performingoperations on signednumbers andfractions; presentingsolutions in reducedradical form	-	Teacher generated assessments	Semester 2	Students will apply skills and solve problems involving length, and they will have the foundation for future study of vectors
8. Students will be able to Identify the relationships between first, second, and third dimensional shapes	•	Draw and apply measurements to determine lengths, areas, and volumes	Vo Pro	ocabulary: Dimension Planes erequisite Skills: Measurement Area	•	District generated summative assessments Teacher generated formative assessments	Semester 2	Students will be able to graph and find area and/or volume of planes or solids

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 9. Students will be able to understand and apply conditional probability Evaluate the probability of dependent & independent events Evaluate the probability of mutually exclusive and inclusive events Prerequisite Skills: Fraction Operation Ratios 	 District generated summative assessments Teacher generated formative assessments Teacher generated formative assessments 	te on
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