

EDISON HIGH SCHOOL SUSING Home of the Vikings



				Essential C	Outcomes Cha	art: What is i	it w	e expect students to learn?	?	
Code 0 10 Cd.		Cubicat	Commeter	g ,	1 & 2	Team	C	atherine Wheeler	Punny Po	Anh Vo
Grade:	9-12	Subject	Geometry	Geometry Semester		Members:	K	evin Pledger	Maha Ali	
Standard Description Exa		Example	Example Rigor		Prerequisite Skills		Common Assessment	When Taught?	Extension Standards	
What is the essential standard to be learned? Describe in student-friendly vocabulary.		dent-	What does proficient student work look like? Provide an example and/or description.		What prior knowledge, skills, and/or vocabulary is/are needed for a student to master this standard?		y nt	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)?
construc	s will be able to tion skills to rate an underst uence.	11 0	and straight	edge: an angle gment parallel ther line ven point. gle bisector.	 Ray Paralle Perpen Angle Compa Straigh Congru Prerequisi Angles Unders 	egment I dicular Bisector ass at Edge aent ite Skills:	•	District generated summative assessments Teacher generated formative assessments	Weeks 1-5	 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: Translation Rotation Reflection	•	District generated summative assessments Teacher generated formative assessments	Weeks 6-8	-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 Prerequisite Skills: Recognize various polygon	•	District generated summative assessments Teacher generated formative assessments	Weeks 9-12	Students will use a two column or paragraph proof to prove two triangles are congruent

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4.	Students will be able to apply different similarity theorems	 Explain/prove two triangles are congruent by using similar triangle theorems. 	 Side-Side-Side Similarity Side-Angle-Side Similarity Prerequisite Skills: Ratios & 	•	District generated summative assessments Teacher generated formative assessments		Students will use a two column or paragraph proof to prove two triangles are congruent
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. 	Vocabulary: Sine Ratio Cosine Ratio Tangent Ratio Theta Prerequisite Skills: Exponents & square roots Simplify radicals Reading a Trigonometry Table Apply the Pythagorean Theorem Solving proportions	•	District generated summative assessments -Teacher generated formative assessments	Weeks 16-18	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		Weeks 19-23	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.	•	distance, and endpoint of a line segment as well as perform both internal and external segment division		Midpoint Distance Perimeter Midsegment Directed line segment Area erequisite Skills: Graphing in the coordinate plane; performing operations on signed numbers and fractions; presenting solutions in reduced radical form	•	Teacher generated assessments	Weeks 24-28	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	•	measurements to determine lengths, areas, and volumes	•	Dimension Planes erequisite Skills: Measurement Area	•	District generated summative assessments Teacher generated formative assessments	Weeks 29-32	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

Vocabulary:

- Dependent & Independent Events
- Mutually Exclusive & Inclusive Events

Prerequisite Skills:

- Fraction Operations
- Ratios

District generated summative assessments
 Teacher generated

Weeks 33-36

 Teacher generated formative assessments Students will evaluate probability given pictorial representation of events