Any standard highlighted in yellow has been determined by our WCSD teachers, district and state experts as essential for students to master.

Strand: I can use coordinates to prove simple geometric theorems algebraically. (9.G.GPE.4,5,7)

Standard 9.G.GPE.4: I can use coordinates to prove simple geometric theorems algebraically.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• I can prove or disprove that a figure defined by four given points to the coordinate plane is a rectangle. • I can prove or disprove that a point (1, √3) lies on the circle centered at the origin and containing the point (0,2). • I can use coordinates to prove simple geometric theorems algebraically.	• prove, theorem, radical, coordinates, geometric theorems	• How did you solve the problem? • What steps were involved?	• District CFAs

Standard 9.G.GPE.5: I can prove the slope criteria for parallel and perpendicular lines and use them to solve geometric problems.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• I can prove that the slopes of parallel lines are equal. • I can prove that the product of the slopes of perpendicular lines is -1. • I can use slope criteria for parallel and perpendicular lines to solve geometric problems. • I can write the equation of a line parallel or perpendicular to a given line, passing through a given point.	• parallel, perpendicular, reciprocal	• I solved the problem by….. • My strategy was successful because…..	• District CFAs

Strand: I can use coordinates to prove simple geometric theorems algebraically. (9.G.GPE.4,5,7)			
Standard 9.G.GPE.7: I can use coordinates to compute perimeters of polygons and areas of triangles and rectangles.			
Learning Targets • I can use the distance formula to compute perimeters of polygons. • I can use the distance formula to compute areas of triangles. • I can use the distance formula to compute areas of rectangles.	**Academic Vocabulary & Notation** • perimeter, polygon, area, distance formula, triangle, rectangle	**Question Stems** • Explain what you have done so far. • What do you notice when….? • What have you learned or found out today?	**Possible Assessments** • District CFAs