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

Strand 10.G.GPE: I can translate between the geometric description and the equation for a conic section (Standard G.GPE.1). I can use coordinates to prove simple geometric theorems algebraically, including simple proofs involving circles (Standard G.GPE.4). I can use coordinates to prove simple geometric theorems algebraically (Standard G.GPE.6)

Standard 10.G.GPE.1: I can derive the equation of a circle of given center and radius using the Pythagorean Theorem. I can complete the square to find the center and radius of a circle given by an equation.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• I can derive the equation of a circle of given center and radius using the Pythagorean Theorem. • I can complete the square to find the center and radius of a circle given by an equation.	• derive, equation, circle, center, radius, Pythagorean Theorem, square	• What questions arose as you worked? • The most important thing I learned today is _____.	• District CFAs

Standard 10.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 in the coordinate plane is a rectangle. • I can prove or disprove that the point (1, √3) lie on the circle centered at the origin and containing the point (0,2)	• coordinate, geometric theorems, algebraically, rectangle, origin	• What changes did you have to make to solve the problem?	• District CFAs

Standard 10.G.GPE.6: I can find the point on a directed line segment between two given points that partitions the segment in a given ratio.

Learning Targets	Academic Vocabulary & Notation	Question Stems	Possible Assessments
• I can find the point on a directed line segment between two given points that partitions the segment in a given ratio.	• directed line segment, two given points, partitions, segment	• How have you shown your thinking? • Justify your answer.	• District CFAs