"Student-Friendly" Standards for CCGPS Analytic Geometry

Unit 6 | Modeling Geometry

Standard Code	Mastery Level	Standard
G.GPE.1		Use the Pythagorean Theorem to derive the equation of a circle, given the center and the radius.
		Given an equation of a circle, complete the square to find the center and radius of a circle.
G.GPE.2		Given a focus and directrix, write the equation of the parabola.
		Given a parabola, identify the vertex, focus, directrix, and axis of symmetry, noting that every point on the parabola is the same distance from the focus and the directrix.
G.GPE.4		Use coordinate geometry to prove geometric theorems algebraically. For example, prove or disprove that the point $(1, \sqrt{3})$ lies on the circle centered at the origin and containing the point (0, 2).