



	Monday 10/30	Tuesday 10/31	Wednesday 11/01	Thursday 11/02	Friday 11/03
<b>ACCRS (Objectives):</b>	<i>Create graphs of conic sections, including parabolas, hyperbolas, ellipses, circles. Formulate equations of conic sections from their determining characteristics (AL)</i>				
<b>Before:</b>	*Homework Review (Circle Basics)	*Warm-Up (Circles)	*Homework Review (Ellipse)	*Warm-Up (Circles & Ellipse)	*Quiz (Circles and Ellipse)
<b>During:</b>	*Group Collaboration Problems (Circle Word Problems)	*Ellipse Lesson & Examples	*Finish Ellipse Lesson & Examples	*Parabola Lesson & Examples	*Finish Parabola Lesson & Examples
<b>After:</b>	*Homework: Khan Academy (Circles)	*Group Collaboration Problems & Homework Set  *Work on Khan Academy (Ellipses)	*Group Collaboration Problems & Homework Set  *Work on Khan Academy (Ellipses)	*Group Collaboration Problems  *Homework: Study for Quiz	*Homework Set & Khan Academy (Parabolas)
<b>Desired Outcome:</b>	Students will be able to solve problems involving equations of circles.	Students will be able to find the features of an ellipse & sketch them using their equation.		Students will be able to find the features of a parabola & sketch them using their equation.	Students will demonstrate their understanding of equations of circles and ellipses. Students will be able to find the features of a parabola & sketch them using their equation.
<b>Formative/ Summative:</b>	Student questioning during homework review/group collaboration  Khan Academy quizzes	Student questioning during warm-up/lesson/group collaboration  Khan Academy quizzes	Student questioning during homework review/lesson/group collaboration  Khan Academy quizzes	Student questioning during warm-up/lesson/group collaboration  Khan Academy quizzes	Quiz  Student questioning during lesson/examples  Khan Academy quizzes
<b>Critical Questions:</b>	<i>Explain what it means for a line to be tangent to a circle. If the center of a circle is <math>(h,k)</math> and it is tangent to the <math>x</math> and <math>y</math> axis, what is its equation? Area?</i>	<i>Explain the definition of ellipse. Explain how to determine whether the ellipse is being stretched horizontally vs vertically based on its equation. Explain how to find the vertices and foci of an ellipse centered at the origin. Explain how to determine the vertices and foci of an ellipse that is not centered at the origin. Explain the meaning of eccentricity and what the value tells you about the ellipse.</i>		<i>Explain the definition of parabola. Are all parabolas functions? Which parabola types have you previously studied that are functions?</i>	<i>Explain the meaning of the directrix. Explain what the different coefficients in the parabola equation tell you.</i>