



WESTSIDE HIGH SCHOOL

Level Up: *RISE* to Your Potential

24-25 Lesson Plan Template

Teacher: **Nkechi Chuke-Oweina**

Subject: **Geometry Prep**

Week of: DATE	Monday February 24, 2025	Tuesday February 25, 2025	Wed./Thurs. February 26 & 27, 2025	Friday February 28, 2025
TEKS	GEOM.12E	GEOM.12E	GEOM.12A	GEOM.12A
Learning Objective	SWBAT determine the equation for the graph of a circle with radius r and center (h, k) , $(x - h)^2 + (y - k)^2 = r^2$.	SWBAT determine the equation for the graph of a circle with radius r and center (h, k) , $(x - h)^2 + (y - k)^2 = r^2$.	SWBAT apply theorems about circles, including relationships among tangent lines, radii, chords, and arcs to solve non-contextual problems.	SWBAT apply theorems about circles, including relationships among inscribed angles, to solve non-contextual problems.
Higher Order Thinking Questions	What information is necessary when writing an equation of a circle with its center at (h,k) ?	What information is necessary when writing an equation of a circle with its center at (h,k) ?	In a circle, how are tangent lines, radii, chords, and arcs related to each other?	How do you describe the radian measure of an angle as it relates to the length of its intercepted arc and the radius of the circle?
Agenda	1. Do Now 2. Lesson – Circle Equation with Center at (h,k)	1. Do Now 2. Lesson – Circle Equation with Center at (h,k)	1. Do Now 2. Lesson - Tangent lines, Radii, Chords, and Arcs - Tangent to a circle theorem - Tangent from a point theorem	1. Do Now 2. Lesson – Inscribed Angles and Intercepted Arcs - Angle at the center theorem

	<ul style="list-style-type: none"> - Explore the equation of a circle with center at (h,k) - Write equation of circles with center at (h,k). - Determine radius and center of circles. - Determine the location of points. 3. DOL- Independent Practice	<ul style="list-style-type: none"> - Explore the equation of a circle with center at (h,k) - Write equation of circles with center at (h,k). - Determine radius and center of circles. - Determine the location of points. 3. DOL- Independent Practice	<ul style="list-style-type: none"> - Tangent-tangent angle theorem - Tangent-chord angle theorem 3. DOL – Independent Practice	<ul style="list-style-type: none"> - Angles in the same segment theorem - Angle inscribed in the semi-circle theorem - Angles in a cyclic quadrilateral theorem - Alternate segment theorem 3. DOL- Independent Practice
Demonstration of Learning	Given 5 problems, students will correctly determine the equation for the graph of a circle with radius r and center (h, k), $(x - h)^2 + (y - k)^2 = r^2$ in 4 of 5 questions.	Given 5 problems, students will correctly determine the equation for the graph of a circle with radius r and center (h, k), $(x - h)^2 + (y - k)^2 = r^2$ in 4 of 5 questions.	Given 5 problems, students will correctly apply theorems about circles, including relationships among tangent lines, radii, chords, and arcs to solve 4 of 5 non- contextual problems.	Given 5 problems, students will correctly apply theorems about circles, including relationships among inscribed angles, to solve 4 of 5 non- contextual problems.
Intervention & Extension	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.	Completed notes for the unit posted on canvas. Video notes posted on canvas. Activity to practice concepts learned during the class.
Resources	straightedge, blank paper, whiteboard, response cards, slide deck,	straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages	straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages	straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages

	student activity pages			
--	---------------------------	--	--	--