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** March 31, 2025	**Tuesday** April 1, 2025	**Wed./Thurs.** April 2 & 3, 2025	**Friday** April 4, 2025
TEKS		GEOM.10B	GEOM.11A	GEOM.11A
Learning Objective	No School	SWBAT determine and describe how changes in the linear dimensions of a shape affect its perimeter, and area, including proportional and non-proportional dimensional change.	SWBAT apply the formula for the area of regular polygons to solve problems using appropriate units of measure.	SWBAT apply the formula for the area of regular polygons to solve problems using appropriate units of measure.
Higher Order Thinking Questions		How do proportional and non-proportional changes in the linear dimensions of figures affect its perimeter and area?	What information must be given in order to apply the formula when solving for the area of regular polygons?	What information must be given in order to apply the formula when solving for the area of regular polygons?
Agenda		1. Do Now 2. Lesson - Effects of Dimensional Changes to Perimeter and Area	1. Do Now 2. Lesson - Area of Regular Polygons Using Formula - Derive the area formula for regular polygons.	1. Do Now 2. Lesson - Area of Regular Polygons Using Formula

		- Explore the effects of proportional dimensional changes on perimeter and area. - Summarize and apply the effects of proportional changes on perimeter and area. - Explore the effects of non-proportional dimensional changes on perimeter and area. - Practice applying the effects of proportional and non-proportional changes. 3. DOL – Independent Practice	- Solve for the area of regular polygons using the formula. - Solve for parts of regular polygons using the side ratio of special right triangles. - Solve practice problems about the area of regular polygons. 3. DOL – Independent Practice	- Derive the area formula for regular polygons. - Solve for the area of regular polygons using the formula. - Solve for parts of regular polygons using the side ratio of special right triangles. - Solve practice problems about the area of regular polygons. 3. DOL – Independent Practice
Demonstration of Learning		Given 5 problems, students will correctly determine and describe how changes in the linear dimensions of a shape affect its perimeter, and area, including proportional and non-proportional dimensional change in 4 of 5 problems.	Given 5 problems, students will correctly apply the formula for the area of regular polygons to solve problems using appropriate units of measure in 4 of 5 problems.	Given 5 problems, students will correctly apply the formula for the area of regular polygons to solve problems using appropriate units of measure in 4 of 5 problems.
Intervention & Extension		Completed notes for the unit posted on canvas. Video notes posted on		Completed notes for the unit posted on canvas. Video notes posted on

		canvas. Activity to practice concepts learned during the class.		canvas. Activity to practice concepts learned during the class.
Resources		straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages		straightedge, blank paper, whiteboard, response cards, slide deck, student activity pages