WESTSIDE HIGH SCHOOL

Level Up: RISE to Your Potential

24-25 Lesson Plan Template Teacher: Geometry Team Subject: Geometry Prep

Week of: DATE	**Monday** **April 7, 2025**	**Tuesday** **April 8, 2025**	**Wed./Thurs.** **April 9 & 10, 2025**	**Friday** **April 11, 2025**
TEKS	GEOM.9A	Various	Various	GEOM.11C
Learning Objective	SWBAT determine the lengths of sides and measures of angles in a right triangle by applying the trigonometric ratios to solve for the area of a regular polygon.	SWBAT review previously learned concepts and clarify misconceptions in the test review.	SWBAT demonstrate concepts mastery on the unit assessment.	SWBAT apply the formulas for the total and lateral surface area of prisms, and cylinders, to solve problems using appropriate units of measure.
Higher Order Thinking Questions	How are the lengths of sides in a right triangle determined in order to solve for the area of regular polygons?	How can misconceptions in previously learned concepts clarified in the test review?	How can previously learned concepts be applied in the unit assessment?	What are the different formulas we can use to solve problems related to the lateral and total surface areas of cylinders and prisms?
Agenda	1. Do Now 2. Lesson - Area of Regular Polygons Using Trig. – Revisit the trigonometric ratios: sine, cosine, and tangent.	1. Do Now 2. Review 3. DOL – Quiz	1. Finish Review 2. Unit Assessment 3. Make up missing assignments	1. Do Now 2. Lesson - Surface Area of Prisms and Cylinders - Today we will learn how to solve for the **surface area** of prisms and cylinders by

	- Determine the missing side in a right triangle to solve for the area of a regular polygon. - Solve practice problems where they must use trig ratio to solve for a missing side. 3. DOL – Independent Practice			adding more prisms to what were initially introduced in 8th grade math. - In 8th grade, you only learned about surface area of cylinders, rectangular prisms, and triangular prisms. - We will use **formulas** to calculate the surface areas of the solids shown below. 3. DOL – Independent Practice
Demonstration of Learning	Given 5 problems, students will correctly determine the lengths of sides and measures of angles in a right triangle by applying the trigonometric ratios to solve for the area of a regular polygon in 4 of 5 problems.	Given review questions, students will correctly apply previously learned concepts in at least 80% of the questions.	Given assessment questions, students will correctly apply previously learned concepts in at least 80% of the questions.	Given 5 problems, students will correctly apply the formulas for the total and lateral surface area of prisms, and cylinders, 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 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, student activity pages	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

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