



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 17, 2025 | Tuesday February 18, 2025 | Wed./Thurs. February 19 & 20, 2025 | Friday February 21, 2025 |
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| TEKS | | GEOM.12C | Various | GEOM.12D |
| Learning Objective | HOLIDAY No School | SWBAT apply the proportional relationship between the measure of the area of a sector of a circle and the area of the circle to solve problems. | SWBAT demonstrate concepts mastery on the review and unit assessment. | SWBAT describe radian measure of an angle as the ratio of the length of an arc intercepted by a central angle and the radius of the circle. |
| Higher Order Thinking Questions | | What is the relationship between the area of a sector and the area of a circle, and how is it applied to solve measurement problems? | How can previously learned concept be applied in the review and unit assessment? | 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 – Area of a Sector & Segment - Definition of a sector of a circle. | 1. Review 2. Unit Assessment - Independent Practice 3. Make up missing assignments | 1. Do Now 2. Lesson – Radian Measures - Define radian. - Explore radian. |

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| | | <ul style="list-style-type: none"> - How to solve for the area of a sector. - Definition of a segment of a circle. - How to solve for the area of a segment. <p>3. DOL- Independent Practice</p> | | <ul style="list-style-type: none"> - Convert degree to radian and vice versa. - Solve for arc length given a radian measure for the central angle. <p>3. DOL- Independent Practice</p> |
| Demonstration of Learning | | Given 5 problems, students will correctly apply the proportional relationship between the measure of the area of a sector of a circle and the area of the circle to solve problems in 4 of 5 questions. | Given review and assessment questions, students will correctly apply previously learned concepts in at least 80% of questions. | Given 5 problems, students will correctly describe radian measure of an angle as the ratio of the length of an arc intercepted by a central angle and the radius of the circle in 4 of 5 questions. |
| 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. |
| Resources | | 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 |