Ouachita River School District

UNIT 11 PLAN

Teacher: Kathy Padilla Subject: Geometry Grade Level: 9-10 Date: _____ Appx Length (Days): __8___

<table>
<tr><td>UNIT TITLE:
Surface Area and Volume</td><td rowspan="2">Student Learning Objectives: What Will the Student Know and Be Able to Do Successfully by the End of This Unit?

The Student Will – Be able to recognize polyhedra and their parts to visualize cross section of spare figures

The Student Will – Be able to use geometric shapes, their measures, and their properties to describe objects

The Student Will – Be able to find the surface area of a pyramid and a cone

The Student WIll-- Be able to use volume formulas for cylinders, pyramids, and spheres

The Student Will-- Be able to compare and find volume and area of similar figures</td></tr>
<tr><td>AR Academic Mathematics Standards: Include Essential Learnings!

AR.Math.Content: HSG.GPE.B.7

AR.Math.Content

AR.Math.Content

AR.Math.Content</td></tr>
<tr><td>Necessary Prerequisite Skills: What will the Student Need to Know at the Beginning of This Unit? Student must know how to solve equations.</td><td>Interventions: What are My Plans for Intervening when Students are not Successful on Daily or Interim Assessments?

● One-on-one tutoring
● Peer tutoring</td></tr>
<tr><td>Essential Questions/ Big Ideas: Enduring Understanding, Relevance to Students, Overarching Objectives

1. How can you determine the intersection of a solid and a plane?</td><td>Math Practice Standards
standard 1: make sense of problems & persevere in solving them
standard 2: reason abstractly & quantitatively
standard 3: construct viable arguments & critique the reasoning of others
standard 4: model with mathematic</td></tr>
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<tr><td>2. How do you find the surface area and volume of a solid?

3. How do surface area and volume of similar solids compare?</td><td colspan="3">standard 5: use appropriate tools strategically
standard 6: attend to precision
standard 7: look for & make use of structure
standard 8: look for & express regularity in repeated reasoning</td></tr>
<tr><td>Learning Activities: What Will the Teacher DO to Accomplish the Student Learning Objectives?

● Modeling
● Kuta website:
● Generate problems
● Let kids tell whether they are congruent or not and why they are or are not
● Cooperative learning groups</td><td colspan="3">V Cone
O Conic section
C Cylinder
A Polyhedron
B Prism
U Pyramid
L Similar solids
A Sphere
R Surface area
Y Volume

Resources/Technology: List of Websites, Read Aloud Books, Games & etc.

● Worksheets</td></tr>
<tr><td colspan="4">Assessments Type: How Will I Know the Student Has Been Successful?</td></tr>
<tr><td>Daily/Exit Ticket
● Questioning
● Homework scores</td><td>Interim:
● Questioning
● Quiz
● Pop quiz</td><td colspan="2">Formative:
● Test</td></tr>
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