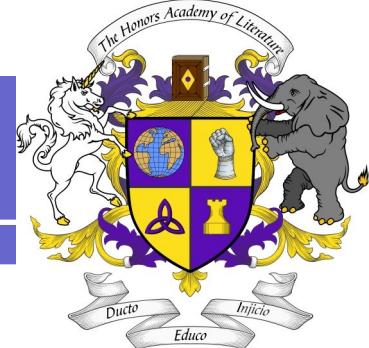


MS. AUDREY- MATH

HONORS ACADEMY OF LITERATURE



Common Core State Standards

CCSS.Math.Content.7.G.B.4

Know the formulas for the area and circumference of a circle and use them to solve problems; give an informal derivation of the relationship between the circumference and area of a circle.

CCSS.Math.Content.7.G.B.6

Solve real-world and mathematical problems involving area, volume and surface area of two- and three-dimensional objects composed of triangles, quadrilaterals, polygons, cubes, and right prisms.

CCSS.Math.Content.8.G.C.9

Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.

In-class Graded Assignments

- Classwork related to lessons

Homework Graded Assignments

- Geometry challenge

Objectives and Validation

- Objective: Group 1: Students will be able to graph points in the coordinate plane and analyze slope of a line. They will begin to be able to calculate the perimeter and area of a square, rectangle, and triangle
Measure: classwork, homework, unit test.
- Objective: Group 2: Students will be able to calculate surface area and volume of pyramids, cylinders, cones, and spheres
Measure: Classwork, Homework.
- Objective: Group 3: Students will be able to analyze, describe, and graph quadratic functions.
Measure: teacher observation and classwork.

T.8 Mini-Lesson Topics

Coordinates and Linear Graphs

VT.8

Cartesian Coordinate System

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Perimeters and areas of a square, a rectangle, and a triangle

Slopes of Linear Graphs

Mathcounts video projects

Pyramids

Cylinders

Cones

Spheres