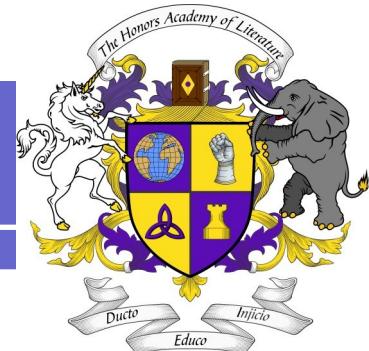


MS. AUDREY- MATH

HONORS ACADEMY OF LITERATURE



Common Core State Standards

CCSS.MATH.CONTENT.7.G.A.2

Draw (freehand, with ruler and protractor, and with technology) geometric shapes with given conditions. Focus on constructing triangles from three measures of angles or sides, noticing when the conditions determine a unique triangle, more than one triangle, or no triangle.

CCSS.MATH.CONTENT.7.EE.B.4

Use variables to represent quantities in a real-world or mathematical problem, and construct simple equations and inequalities to solve problems by reasoning about the quantities.

CCSS.MATH.CONTENT.8.G.B.6

Explain a proof of the Pythagorean Theorem and its converse.

CCSS.MATH.CONTENT.8.G.B.7

Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions.

CCSS.MATH.CONTENT.8.G.B.8

Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.

In-class Graded Assignments

- Classwork related to lessons

Homework Graded Assignments

- Group 1—Graphing Inequalities
- Group 2—Pythagorean Theorem

Objectives and Validation

- Objective: Group 1: Students will understand the meaning of points, lines, planes, etc, will be able to solve problems involving complementary and supplementary angles, and will be able to accurately draw angle bisectors, perpendicular bisectors, triangles, and quadrilaterals given certain conditions.

Measure: unit test,

- Objective: Group 1 : Students will be able to solve and model simple inequalities.

Measure: Classwork, Homework.

- Objective: Group 2: Students will understand the Pythagorean theorem and will be able to apply and prove it.

Measure: Homework, classwork and unit test.

- Objective: Group 3: Students will continue exploring geometry concepts through independent study with teacher assistance.

Measure: teacher observation.

T.8 Mini-Lesson Topics

Solving Simple Inequalities

VT.8

More Properties of Inequalities

triangles

quadrilaterals

Mathcounts video projects

Pythagorean Theorem

The Converse of the Pythagorean Theorem

Applications of the Pythagorean Theorem