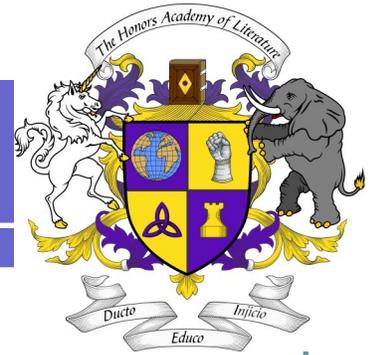


MS. AUDREY— MATH

HONORS ACADEMY OF LITERATURE



Common Core State Standards

CCSS.MATH.CONTENT.7.RP.A.3

Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

CCSS.MATH.CONTENT.8.G.A.5

Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles.

CCSS.MATH.CONTENT.8.F.A.1

Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of ordered pairs consisting of an input and the corresponding output.¹

CCSS.MATH.CONTENT.8.F.A.2

Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions).

CCSS.MATH.CONTENT.8.F.A.3

Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear

Objectives and Validation

- Objective: Group 1: Students will be able to solve problems involving percentage, including percent increase and decrease.
Measure: classwork, homework, and unit test,
- Objective: Group 2: Students will understand angle relationships related to parallel lines, transversals, and triangles.
Measure: Homework, classwork and unit test.
- Objective: Group 3: Students will continue exploring geometry concepts through independent study with teacher assistance.
Measure: teacher observation.

In-class Graded Assignments

- Classwork related to lessons

Homework Graded Assignments

- Complete homework menu and worksheets related to classwork.

Mini-Lesson Topics

Parallel lines and angles in triangles and polygons

Percentage increase and decrease

Linear functions

Filming projects

Mathcounts video projects

Discount and Sales tax

Graphs of quadratic functions

* See your child's Developmental Education Plan for one-on-one and small group instruction