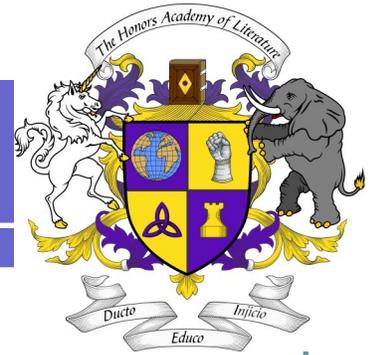


JANUARY 13—JANUARY 17

MS. AUDREY— MATH

HONORS ACADEMY OF LITERATURE



Common Core State Standards

CCSS.Math.Content.7.NS.A.1b Understand $p + q$ as the number located a distance $|q|$ from p , in the positive or negative direction depending on whether q is positive or negative. Show that a number and its opposite have a sum of 0 (are additive inverses). Interpret sums of rational numbers by describing real-world contexts.

CCSS.Math.Content.7.NS.A.1c Understand subtraction of rational numbers as adding the additive inverse, $p - q = p + (-q)$. Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts.

CCSS.Math.Content.7.NS.A.1d Apply properties of operations as strategies to add and subtract rational numbers.

CCSS.Math.Content.8.EE.C.7b Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

Objectives and Validation

- Objective: Students will use oral and written literacy skills to explain a math problem through film.
Measure: Mathcounts video project.
- Objective: Group 1: Students will be able to add, subtract, multiply, and divide positive and negative integers using the order of operations and will be able to solve simple algebraic equations using these concepts.
Measure: teacher observation, classwork, homework and unit test.
- Objective: Group 2: Students will be able to factor algebraic expressions, and will begin to factor and solve quadratic equations.
Measure: teacher observation during classwork, homework, and unit test

In-class Graded Assignments

- **Edit mathcounts videos.**
- **Classwork related to lessons**

Homework Graded Assignments

- **Support math video projects**
- **Complete 3 choices from homework menu for extra credit**

Mini-Lesson Topics

Review of Negative Numbers on the number line

Addition and additive inverse

Subtraction and absolute value of the difference

Multiplication, Division, and combined operations of integers

Rational numbers

Review of expansion and factorization of algebraic expressions

Factorization of quadratic equations

Solving quadratic equations through factorization

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