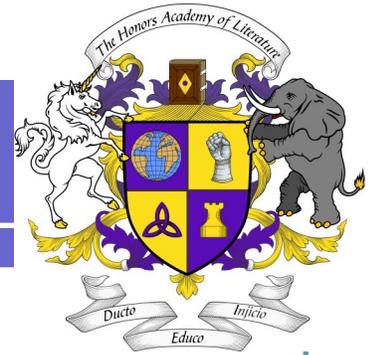


JANUARY 27—JANUARY 31

# MS. AUDREY— MATH

HONORS ACADEMY OF LITERATURE



## Common Core State Standards

CCSS.Math.Content.8.G.A.1 Verify experimentally the properties of rotations, reflections, and translations:

CCSS.Math.Content.8.G.A.2 Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.

CCSS.Math.Content.8.G.A.3 Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.

CCSS.Math.Content.8.G.A.4 Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.

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.

## 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. They will understand the ideas of absolute value and rational/irrational numbers, and will be able to solve problems involving these concepts.  
Measure: teacher observation, classwork, homework and unit test.
- Objective: Group 1: Students will understand the use of letters in algebra, and will be able to solve simple problems involving variables.  
Measure: teacher observation and classwork related to lessons.
- Objective: Group 2: Students will be able to factor and solve algebraic expressions and equations.  
Measure: teacher observation during classwork, homework, and unit test.
- Objective: Group 2: Students will begin to understand ideas of congruence and similarity, and will perform translations, reflections, and rotations.

### In-class Graded Assignments

- Present Mathcounts videos
- Prepare ice-skating presentations
- Classwork related to lessons

### Homework Graded Assignments

- Complete 3 choices from homework menu for extra credit

### Mini-Lesson Topics

Review of quadratic equations and unit test

Congruence and reflections

Introduction to Algebra

The use of letters in Algebra

Translations, rotations, and combining transformations

Similarity

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