JANUARY 12—JANUARY 16

MS. AUDREY– MATH

HONORS ACADEMY OF LITERATURE

Common Core State Standards

CCSS.MATH.CONTENT.7.G.B.5
Use facts about supplementary, complementary, vertical, and adjacent angles in a multi-step problem to write and solve simple equations for an unknown angle in a figure.
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.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

In-class Graded Assignments

- **Classwork related to lessons**

Homework Graded Assignments

- **Group 1—Sam Loyd's Dissection**
- **Group 2—By the Book**

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: classwork, homework, and unit test,

- Objective: Group 2: Students will understand the meaning of a function, and will be able to represent linear and quadratic functions graphically.

  Measure: Homework, classwork and unit test.

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

  Measure: teacher observation.

Mini-Lesson Topics

Linear Functions
Graphs of quadratic functions
triangles
quadrilaterals
Mathcounts video projects

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