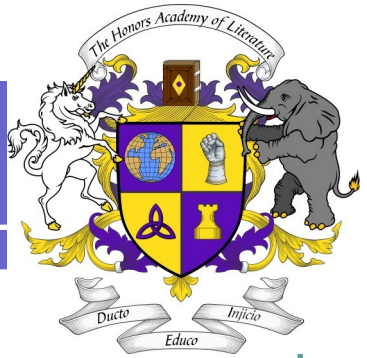# MS. DORA– MATH/SCIENCE

THE HONORS ACADEMY OF LITERATURE

Common Core State Standards

Solve real-world and mathematical problems involving area, surface area, and volume.

CCSS.Math.Content.6.G.A.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.

CCSS.Math.Content.6.G.A.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = l\,w\,h$ and $V = b\,h$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.

CCSS.Math.Content.6.G.A.3 Draw polygons in the coordinate plane given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.

Objectives and Validation

- Objective: Scholars will work with square units
  Measure: Completion of exercise and later test

- Objective: Scholars will work with perimeter of rectangles and squares
  Measure: Completion of exercise and later test

- Objective: Scholars will learn the formula for the area of a triangle.

  Measure: Completion of activities and class discussion

In-class Graded Assignments

- **Chapter 1 109-110**
- **Chapter 2 111-113**
- **Chapter 3 114-122**
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Homework Graded Assignments

- **Exercise 1 106-107**
- **Exercise 2 108**
- **Exercise 3 109-112**
- **Exercise 4&5 113-118**
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Mini-Lesson Topics

Square Units
Area
Rectangles and Squares
Perimeter
Polygons
Area of a Triangle
height
Base
Formula for the area of a triangle

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