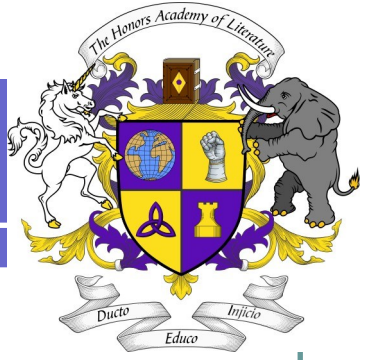# MS. DORA– MATH/SCIENCE

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: Derive the formula for area of a triangle and use it to find the area of triangles.

Measure: Completion of exercise and later test

Objective: Derive the formula for area of a parallelogram and use it to find the area of parallelogram.

Measure: Completion of exercise and later test

Objective: Find the surface area of a rectangular prism.

Measure: Completion of exercise and later test

Objective: Using Measurements in real life applications.

Measure: Completion of measurement activity

In-class Graded Assignments

- **Lesson 3**
- **Lesson 4**
- **Lesson 5**

Homework Graded Assignments

- **Exercise 3 109-112**
- **Exercise 4&5 113-118**
- **Exercise 6 119-120**
- **Exercise 7 121-122**

Mini-Lesson Topics

Derive formula for area of a triangle
Use area of a triangle formula
Derive formula for area of a parallelogram
Use area of a parallelogram formula
Surface area of a rectangular prism
Measurements in real life applications

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