

**Menu:** Geometry

**Final Due Date:** April 17

**Check In Dates:** Meet with Teacher to determine

**Main Dish (Most Complete All)**

1. Complete the outline sheet on Volume including definition and formulas.
2. Create a Venn diagram comparing Volume and Area
3. Explain the use of multiplication in finding volume. How is addition used in finding compound volumes?

What is the role of units in volume – both with multiplication and addition?

4. Complete worksheet on volume problems – shapes and applications.

**Side Dish (Choose 2)**

1. Find solids (a minimum of 5) in your world – school, home, neighborhood, or anywhere else. Sketch each right rectangular prism with measurements and calculate the volume for each. Suggest what could be stored in each.
2. Compare the two volume formulas with which we have worked. Explain how the two formulas are really different versions of the same thing. Use diagrams to explain the comparison.
3. Build a composite shape from blocks or boxes. Bring in your model or sketch the model. Find the volume of your shape.
4. Find a creative way to show the difference between 2-D and 3-D shapes including what “D” means, how it affects related measurements and units, and include models.

**Dessert (Optional to go above and beyond)**

1. Create a Volume Book with the following pages:
  - a) Cover page
  - b) Definitions, diagrams and formulas
  - c) A minimum of 6 original volume problems – 3 simple prisms and 3 compound shapes with answers
  - d) A minimum of 2 original application problems with answers
2. Design a storage chest for your room that will hold at least 12 of your toys and games. Measure the toys and games individually, and then design your storage chest. Draw your toys with their measurements, and the

design for your storage chest.

(End Example)