

Name _____

My Volume Sculpture:

I am measuring my dimensions in _____

[Work Space]

Prism/Cube 1

Dimensions: Length _____ Width _____ Height _____

Volume: _____ x _____ x _____
_____ x _____

Prism/Cube 2

Dimensions: Length _____ Width _____ Height _____

Volume: _____ x _____ x _____
_____ x _____

Prism/Cube 3

Dimensions: Length _____ Width _____ Height _____

Volume: _____ x _____ x _____
_____ x _____

Prism/Cube 4

Dimensions: Length _____ Width _____ Height _____

Volume: _____ x _____ x _____
_____ x _____

The Total Volume of my Sculpture is _____ cubic _____

Name _____

VOLUME SCULPTURE PROJECT

Objective:

® MATH.5.4H Represent and solve problems related to perimeter and/or area and related to volume.

MATH.5.4G Use concrete objects and pictorial models to develop the formulas for the volume of a rectangular prism, including the special form for a cube ($V = l \times w \times h$, $V = s \times s \times s$, and $V = Bh$).

© MATH.5.6A Recognize a cube with side length of one unit as a unit cube having one cubic unit of volume and the volume of a three-dimensional figure as the number of unit cubes (n cubic units) needed to fill it with no gaps or overlaps if possible.

© MATH.5.6B Determine the volume of a rectangular prism with whole number side lengths in problems related to the number of layers times the number of unit cubes in the area of the base.

Instructions

Create a sculpture using **AT LEAST 4** empty boxes. As you are creating your sculpture, measure the dimensions of EACH BOX and calculate its volume. (Complete the Volume Recording Sheet.) Be sure you write about HOW you can calculate the volume using the vocabulary words and sentence stems below.

VOLUME	LENGTH	WIDTH	AREA OF THE BASE
FORMULA	HEIGHT	LAYERS	CUBIC UNITS

Please refer to the Rubric below. **This paper must be turned in with project!**

Self-Check	Description
	Name is written on the upper left hand corner of the paper!
	Work is neat, organized, legible, creative, and colorful.
	Complete the Volume Paper
	WRITING ASSIGNMENT VOLUME is (definition).... Volume can be measured in The dimensions of my prism include a length of __, a width of __ and a height of __ The area of my base is __ square units because __ times __ is __. When I have __ layers of the base, my volume is __ cubic units. The volume formula of a rectangular prism is ____.
	Sculpture is neatly presented.