


Colonial Homestead Project Building requirements

 Background reading [Rectangular solids or cubes](#)

 General Information:


- The easiest shapes to use for this project are cubes and rectangular solids.
- Cubes** or rectangular solids have three dimensions: length, width, and height.
- Cubes** are easy to measure. It is very easy, then, to find the area of the base (bottom), or the volume (the amount of space the cube takes up.)
- Rectangular solids** (shoe boxes) also have three dimensions: length, width, and height. There is a difference in the dimensions, because they are not all of equal length.

 Minimum dimensions of **cube**:

- The **MINIMUM** dimension of all sides **CUBE** is 25 centimeters (cm.)

 Minimum dimensions of your **rectangular solid**.

- The **MINIMUM** dimension of the **LENGTH OF YOUR RECTANGULAR SOLID** is 25 centimeters (cm.)
- The **MINIMUM** dimension of the **WIDTH OF YOUR RECTANGULAR SOLID** is 15 centimeters (cm.)
- The **MINIMUM** dimension of the **HEIGHT OF YOUR RECTANGULAR SOLID** is 10 centimeters (cm.)

 Create objects within your homestead store **TO SCALE.**

- In most homes and buildings, the height of an entry door is approximately 7 feet.
- The height of an interior ceiling is approximately 8 feet. If the height of your shoebox is 10 cm, then the height of an entry must be $\frac{7}{8}$ of 10 cm., or 8.75 cm.
- The height of people, the size of windows, the size of chimneys, and other interior objects must be matched appropriately.

You will need to **create a floor plan IN SCHOOL** to show your understanding of this.

Your homestead will need to be built **TO THE SCALE OF YOUR PLAN.**

 **BEGIN WITH THE BASE, CONTAINER, OR BOX!**

Dimensions of the base will dictate the size of everything you construct.

Bring in your base, container, or box by March 24. It should be labeled with your name and student number.



Reference image:

<http://www.history.org/Foundation/journal/Winter02-03/tenant.cfm>