Physics Name_____
S'mores Measurement and Conversion Lab Pd_____

Directions

STEP 1 You will be using different measurement devices around the room to measure different quantities of the ingredients of S'mores. You need not do the measurements in STEP 1 in any order. Make sure you are taking measurements in the units provided for you to the maximum accuracy of your device.

STEP 2 Using these measurements, you can then perform various calculations of basic quantities. You need to be checked off by Mr. Weidner before moving on.

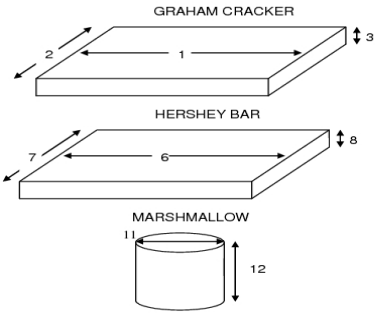
STEP 3 You will need to perform **at least 10** different conversions of the quantities in STEP 1 and STEP 2 as directed on the worksheet. You need to do **at least 2 from each category**. If you do more, they will be worth extra credit.
You will need to receive signatures by Mr. Weidner in at least 10 of the blank check boxes before moving onto STEP 4 and STEP 5. You need not do the conversions in any order.

STEP 4 **CAREFULLY** make your tasty snack.
SAFETY CONCERNS

1. We are using Bunsen burners, ensure that you keep all hair, clothing, etc out of the flame.
2. Keep all papers away from the Bunsen burner.
3. If your marshmallow lights on fire, IMMEDIATELY blow it out.
4. DO NOT let your marshmallow stick catch fire.

STEP 5 Enjoy!!!

STEPS 1&2 – MEASUREMENTS / CALCULATIONS OF BASIC QUANTITIES



GRAHAM CRACKER

1 – Length _____ mm
2 – Width _____ mm
3 – Height _____ mm
4 – Mass _____ g
5 – Volume _____ mm^3

HERSHEY BAR

6 – Length _____ mm
7 – Width _____ mm
8 – Height _____ mm
9 – Mass _____ g
10 – Volume _____ mm^3

MARSHMALLOW

11 – Diameter _____ mm
12 – Height _____ mm
13 – Mass _____ g
14 – Volume _____ mm^3

VOLUME CALCULATIONS

For a rectangular prism
$V = H \times L \times W$

For a cylindrical prism
$V = H \times (D/2)^2 \times \pi$