**How many calories are in Jelly Bean?**

**Purpose:** To determine the amount of heat contained in a jelly bean. After wards, we will convert that measurement into Calories *(I will show you how to do this after you have come up with the heat content)*. To solve this problem you will have to use your knowledge of heat and chemistry.

* ***I will be giving helpful hints periodically, but I really want you to think it through for yourselves.***

**Format:** I want you to prepare this as if you were writing a lab for our lab manuals. You should include all the sections that would be found in a lab: Pre-lab Discussion, Purpose, Materials, Equipment, Procedure, Observation/Data, Calculations, and Conclusion. Next time we meet you will be performing your procedures.

**Introduction/Pre-lab Discussion:** You should discuss all relevant concepts that will be used in this exercise. For example; the lab is a about heat so you should mention heat. Sometimes it is helpful to write the intro after you have completed other sections such as the procedure. This is up to you.

**Purpose:** You may copy the purpose from above.

**Materials:** Jelly Bean

**Equipment:** List all equipment needed.

**Procedure:** Each group is to create their own set of procedures for determining the amount of heat contained in a jelly bean. These procedures should be detailed enough that anyone could follow them and get the results you would expect. Be sure to include an illustration/ diagram of the set-up.

**Obs. /Data:** Bes sure you indicate in your procedure to record any measurements you have made. These measurements go in this section.

**Calculations:** Your data is used in the calculations. Be sure to include any formulas you are using and show all your work.

**Conclusion:** Discuss any interesting things you learned and any possible sources of error.

If you finish early you may attempt to answer the bonus question. Worth one bag of jelly beans.

Bonus question: How many jelly beans does it take to fill a 5 liter container.

You must provide the same formatted info as above.