EXPERIMENT #8:

Comparing Waste from Packaging

PURPOSE:

(this is what the point or goal of an experiment is)

HYPOTHESIS:

(an educated guess as to what will happen in the experiment)

MATERIALS:

(the equipment and other materials you need to do the experiment)



PROCEDURE:

(the steps you took to perform the experiment)

- 1) Bring in 2 products from home that is in its ORIGINAL PACKAGING. One should be a regular or bulk packaged item and one should be a single-serving product. For single-serving items there are smaller packages inside of larger external packages make sure you bring both.
- 2) Weigh the product with ALL of the packaging. Record the mass in the table below.
- 3) For single serving product: Remove ONE of the smaller packages from inside the overall package and weigh this with the product still inside. Record the mass in the table.
- 4) Remove the product from its packaging. Weigh the product alone without the packaging. Record the mass in the table.
- 5) Weigh both parts of the packaging alone (the external packaging and the single serve packaging) Record the mass in the table below.

OBSERVATIONS & RESULTS

(a record of what you saw and what happened in the experiment)

Name of Product	MASS (g) of Product & Packaging	Mass (g) of External Packaging	Mass (g) of Single Serving Packaging	Mass of Product

CONCLUSIONS:

(a statement of what you determined from your experiment that rephrases your purpose. A statement that supports the previous statement based directly on your results)

ANALYSIS:

(questions that show that you know how to analyze your results and what they mean. Require that you interpret the data you collected)

1) Calculate the percent of each product that is packaging.

<u>Mass of packaging</u> x 100 = % packaging Mass of product + packaging

2) Breakdown the items you tested into a <u>chart</u> that shows the percentage that was product, external packaging and internal packaging. Use a separate page for this. **3)** Looking at your results, which types of products produce the greatest amount of waste? Explain using quantitative evidence to back up your answer.

4) Do you think it is better for the environment to purchase products in bulk? Why or why not?

5) Does buying in bulk always reduce packaging? Explain the thinking behind your statement.

6) If one brand of product contains the SAME PERCENTAGE of packaging as another, what other factors could a consumer look at to decide which one is actually a more responsible environmental choice? Explain.