## **Cookie Lab** Quantitative & Qualitative Observations

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

**Intro:** Often two types of data can be collected during an experiment. **Quantitative** data is information that can be accurately measured and recorded (mathematical information). **Qualitative** data is information collected using the five (5) senses and requires a judgment on the part of the experimenter.

#### **Questions:**

- 1. Which brand of cookie is the least expensive?
- 2. Which brand of cookie is the best tasting?
- 3. Which brand of cookie has the best physical qualities?

Hypotheses: Write a hypothesis for each of the questions.

- What to do: Each team of two will collect and record data on three brands of chocolate chip cookies. After all of the Quantitative data has been collected the cookies should be divided in half and the Qualitative data collected.

#### **Procedures:**

Data:

- 1. Record the cost of each bag of cookies, the number in each bag, and the mass of each bag as given by the teacher.
- 2. With your partner, record the mass of each cookie, its size, and the number of chocolate chips in each cookie.
- 3. Next, determine the texture value, crispiness value, color value, aroma value, and finally taste value by using a scale of 1 to 3. The number 3 being the best.
- 4. Answer the question in the conclusion section.

Brand of Cookie	Mass of Cookie			Average	Size of	Number of
	Α	В	С	Mass	cookie	chocolate chips
Α						
В						
С						

# Quantitative

### Qualitative

Brand	Texture	Color	Aroma	Crispiness	Taste
A					
В					
C					

**Conclusion:** Answer the following questions.

1. Now that you know the mass and cost of each bag of cookies, determine which brand was the least expensive.