

Name _____ Date _____ Period _____

BUBBLE GUM REVIEW

Purpose – to practice collecting and analyzing data while making observations

Activity 1 - Observations

Materials for each student – Ruler and stick of gum



Complete the following data table to determine the type of observation being used.

	STICK OF GUM
Qualitative Observation	
Quantitative Observation	

1. What is the difference between qualitative and quantitative observations?

2. Why do you think both qualitative and quantitative observations are helpful for gathering data?

****When done, put rulers back into the ruler bin. Any student who cannot use the ruler for its intended use will not be able to continue with the lab****

Activity 2 – Chomper Challenge

Materials for group table – same stick of gum from activity 1 for each student, 1 stopwatch

For this part of the experiment, you will conduct 5 trials to determine the number of casual chomps you can do in 30 seconds. ****You are just casually chomping, not speed chomping****

Hypothesis – create a hypothesis to predict about how many times you casually chomp on a piece of gum. Remember this is a complete sentence description and not just one or two words.

Variables – Identify the variables in this experiment

Independent –

Dependent –

Control –

Procedure – use the following procedures to complete the experiment.

1. Put the gum in your mouth and chew for a few moments, about 30 to 45 seconds.
2. While chewing your gum create a data table to record your observations.
3. As a group, there is only 1 stopwatch, so the group will work as a team.
4. Choose one group member to start with the stopwatch (hopefully someone who knows how to use the stopwatch).
5. Have the group member with the stop watch tell everyone when to **start** counting casual chomps the same time stopwatch is started and then tell the group member when to **stop** counting chomps after 30 seconds.
6. Only record your own number of chomps in the data table.
7. Hand the stopwatch to a new group member and repeat steps 4 – 6 until the data is collected from 5 trials.
8. Return the stopwatch to the teacher then create a graph to display the results.

DATA TABLE

****Hint - Independent goes on the left side and dependent on the right****

Graph – correctly create a graph to display the results of the chomp challenge. Make sure to include a title and put the independent and dependent variables on the correct axis.

Analysis Questions

1. What is the conclusion for this experiment? Should be a complete sentence...single words do not count.
2. Who was the fastest casual chomper at the group table?
3. Who was the slowest chomper at the group table?
4. What is one SEP that was used to complete this experiment?
5. What is one CCC observed in this experiment?

