Activity: ***Bubble Gum Lab Activity***

Purpose:

The purpose of this exercise is to familiarize students with the proper use of balance. The process of scientific investigation will also be discussed.

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| ***Your hypothesis is:*** |

Materials:

For each student:

* Bubble gum lab activity worksheet

For each group/pair:

* Balances or scales (able to measure in grams)
* Bubble gum (one piece per group)
* Ruler or straight edge
* Pen or pencil
* Graph paper

Procedures:

1. Develop a hypothesis on the effect chewing will have on the weight of the bubble gum. Record the hypothesis.
2. Weigh one piece of bubble gum. Record the weight.
3. Chew the bubble gum for 30 seconds. Using the wrapper as a weigh paper, determine the weight of the bubble gum. Record the weight.
4. Repeat step #3 until bubble gum has been chewed for 5 minutes.
5. Graph the results of your findings.
6. Compare your group’s results with those of other groups.
7. Evaluate your hypothesis.

Results:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Time | 0:00 | 0:30 | 1:00 | 1:30 | 2:00 | 2:30 | 3:00 | 3:30 | 4:00 | 4:30 | 5:00 |
| Weight |  |  |  |  |  |  |  |  |  |  |  |

Questions:

What was your hypothesis? Was it supported?

What is the dependent variable in this experiment?

What is the independent variable in this experiment?

Science Concepts:

The scientific method is key to the many advances that have been made in agriculture. This exercise is designed to assist the students in understanding the steps in conducting experimental research and to understand the definitions of the terms: *dependent variable, independent variable, control, manipulation, hypothesis, and replication*.