GIS Science Project 2025

Product Testing Project (Form P)

Date:

Student Name:

Grade:

Part 1:

Due Aug 25, 2025 **20 points**

My Project Title: Choose a title that identifies the content of your project. The title can include the nature of the study, the species used, and the place of field studies. It should reflect the principal objective of the investigation. **Ex: Testing different soft drinks for their sugar content.**	**Project Title:**
My project addresses the following question: The question should address the comparison of at least 4 materials/ products/ reagents, methods or conditions, eg, . different types of product, brands, price, temperatures..etc. **For example, Which soft drink contains most sugar?**	**Question:**
My project Hypothesis is: **B**ased on your reading and information research, organize everything you have discovered, and then make an estimate of what will happen.	**Hypothesis:**

For example, I hypothesize that coconut water contains the least amount of sugar.	

Part 2

Due Sep 2, 2025 **30 points**

Background Research:

What inspired you to choose this project? What kind of research did you to find out more about this subject? What kind of experiments have been done previously on this topic?

Hypothesis:

Based on your reading and research, organize everything you have discovered, and then make a prediction of what will happen.

Materials:

List of specific biological agents, chemical reagents, instruments, software, etc. along with the source from where they will be obtained

Experimental Procedures:

Procedure (step-by-step procedure with details including exact specifications and quantities).

· Your plan should clearly state which 1 variable you are changing and which ones you are keeping constant (only 1 variable should be changed at a time).

· Clearly define a control experiment (where the variables are unchanged) to which to compare the results from your experiments.

· Have a minimum of 3 products/processes (grades 6-7), or 4 products/processes (for grade 8) for comparison.

· The entire experiment **must be done 3 times**, to ensure the repeatability of the results

Project compares the following products/processes:

Coke

Sprite

Coconut Water

Mountain Dew

Project Control:

Constant conditions of experiment, eg, temperature, time, soil type, current, etc

Project variables:

Parameters of the experiment which will be changed (one at a time) to assess the “best” or “more efficient” products or processes.

Project endpoints:

What parameters will be measured to prove one product/process better than another? (examples are distance, length, volume, mass, speed, wavelength, power output, etc. or any of the above parameters per unit of cost).

Include the endpoint measurements in SI units. **cm(length), squared cm (area), cubic cm (volume), degrees, watts, grams/kilograms**

Part 3

Due Sep 29, 2025 **50 points**

Data Table & Graphs:

Add the collected data here in a table. Measurements should be in **SI units**. Present them using appropriate graphs/charts

Results and Conclusions:

Carefully review your data and see if your hypothesis was supported. Draw conclusions using your data and results.

Bibliography/References:

List at least 5 books or articles that you have read and found useful for your research subject.

1.

2.

3.

4.

5.