## **Final Projects - Final Report**

Physical Science and Technology

This document should be brief description of your final project, combined with the data you took and an analysis of your data. THIS IS AN INDIVIDUAL ASSIGNMENT. Your final report should be typed, with your data included as a Microsoft Word table. Use the following sections for your final report:

- **1. Description**: In two paragraphs of at least 3 sentences each, describe in detail what you created. Make sure to make clear what the three different adjustments were for your project.
- 2. Data: Make a table using Microsoft Excel that shows ALL of the measurements you took for your project. Your data table should include at least 5 trials for each adjustment. Make sure that you use Newtons for the unit of force and meters for the unit of displacement. Then, use the force and displacements you measured to calculate the amount of work done by the force sensor for each adjustment. Make sure to calculate an average for all 5 trials of each adjustment. Here is an example of a data table:

Trial	Force (N)	Displacement (m)	Work (Joules)
Adjustment 1 Trial 1			
Adjustment 1 Trial 2			
Adjustment 1 Trial 3			
Adjustment 1 Trial 4			
Adjustment 1 Trial 5			
Adjustment 1 Average			
Adjustment 2 Trial 1			
Adjustment 2 Trial 2			
Adjustment 2 Trial 3			
Adjustment 2 Trial 4			
Adjustment 2 Trial 5			
Adjustment 2 Average			
Adjustment 3 Trial 1			
Adjustment 3 Trial 2			
Adjustment 3 Trial 3			
Adjustment 3 Trial 4			
Adjustment 3 Trial 5			
Adjustment 3 Average			

- **3. Analysis:** This should be a brief analysis of your data and analysis of your project. In paragraph format, answer the following questions:
  - What did your data show? How did your adjustment affect the force, displacement, or work done by the sensor?
  - Did your project work the way you intended it to?
  - Do you feel that your measurements were accurate and meaningful?
  - What aspects of this project went particularly well for you?
  - If you were to do this project over, what would you do differently?