

# Examining Forces

For this lab report, you will be including information on all four of the stations you completed in class. Please read the criteria carefully to see how you are to document the information.

## 1. Purpose

- In a short paragraph, explain the scientific reason as to why you are writing this lab report. (What were you supposed to learn?)
- Your purpose should cover the concepts to be learned by performing the set of four experiments.
- You may also wish to discuss the secondary purposes for each station – keep in mind that this is not the main idea, and as such these should not each have their own paragraph, simply a summary paragraph.

## 2. Equipment

- Provide dot-jot lists of everything you needed in order to do each of the four experiments.
- Use subheadings to separate the four lists.
- Include images of the equipment (one image per station is fine).
- Could include a diagram showing how the equipment was setup.
- Keep this to a maximum of one page (should be less).

## 3. Procedure

- Provide a numbered, step by step, description of your actions to obtain the results for each of the four experiments.
- Use subheadings to separate the four sets of instructions.
- The step by step instructions should be written such that someone else could repeat your actions based on what you wrote.
- Be sure your instructions are clear.
- Try to keep this to a maximum of one page (it may have to be more, but no more than 2 pages).

## 4. Observations

- Include both data in a table and a series of paragraphs communicating your sensory observations in writing, supplemented with images where available.
- Your table of results should look like the example tables provided at each station.
- You may use digital pictures, however at station 2 you are required to provide 4 hand drawn images – you can scan these images to insert them digitally.
- In a series of paragraphs, indicate what information you obtained with your senses. What did you see/feel/hear? (assume I was not there, tell me everything.)
  - Note: Obtaining written observations for these experiments is more difficult than the previous two lab reports.
  - Think about how the forces felt when you were applying them (or think about how they would feel – riding a bike)
  - Did you hear anything as you applied the force? Did the material make any noise as it changed?
  - The sense of smell will not do much, if anything, for you for these experiments. You are not permitted to taste.

5. Discussion

- Answer, **in detail**, the questions found on each of the four experiment sheets, explicitly, each in a new paragraph.
  - The experiment sheets, containing the questions, may be found online.
- Keep in mind that the discussion questions provided are only half of your discussion section.
- You are to compose and answer a minimum of three of your own discussion style questions, based on the experiments.
- Discuss anything that you learned/thought of as you performed the experiments.
- Your discussion may be related to any of the four stations, or the idea of examining forces in general.

6. Additional Information

- The last section of your mark comes solely from information I did not request. For example, I have not asked for a title page, including one will get you marks towards this section.
- Include multiple additional components, each showing an understanding of the topic (i.e., a glossary of terms).