**SPH 4C Final Project**

Due Date:

Part of the mark earned in SPH 4C is a 10 % final project. Your task is to present a demonstration involving a simple physics concept and produce a handout the outlines the demonstration and why/how it works. References also need to be included.

A topic will be provided to you. You will receive either a worksheet of the demonstration or a website. You may also have to complete some other research to explain how the demonstration works.

A presentation of your demonstration and handout must be completed by the following date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. ***No late assignments will be accepted.***

**Marking Scheme**

**20 marks Presentation and Construction**

**~ did it work, was it well explained, were you prepared for all eventualities, did you get the science correct.**

**30 marks Handout**

**~ neat, typed, organized, spell checked, well explained, information correct, creativity, graphics, references.**

**Topics for Final Project**

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| **Hero’s Engine`** | **Hover Crafts`** |
| **Doppler Effect** | **Vacuum’s`** |
| **Gears`** | **Refraction of Light** |
| **Magnetic Accelerator`** | **Electromagnets`** |
| **Static Electricity Bell’** | **Water Pressure and Depth** |
| **Syphons** | **Periscopes`** |
| **Anemometer`** | **Echolocation** |
| **Gyroscopes** | **Simple Electric Motors`** |
| **Centre of Mass** | **Rocket Propulsion** |
| **Bernoulli’s Principle`** | **Pascal’s Principle** |
| **Water Pressure and Depth`** | **Reflection between Plane Mirros`** |
| **Madenburg Hemispheres** | **Law of Inertia** |