Power Lab:

Objective:

1. Determine the amount of work done by you when you run up the stairs
2. Determine the amount of power you used when running up the stairs
3. Compare and contrast different people's power and why they are different
4. Find relationships between variables involved in determining power and work

Procedure: (to be determined by the class)

Background information: List any formulas, units, and other information needed to complete the objectives above once data is collected.

Hypothesis: (Who will have most and least power and why)

1. most =

_____

_____

2. least =

_____

_____

Data and calculations:: In numbered and labeled steps, sequentially determine your power. You should start this section with:

1. Determine my weight (weight is my force due to gravity)

2.2 lbs = 1kg and acceleration due to gravity is $9.8 m/s^2$ therefore:

(show work here)

2. Determine

Conclusion:

- Do you accept or reject your hypothesis?
- What were the class results?
- What did you learn about power?
- Site a specific relationship seen between data and two or more people's results