

Materials Available:

- Meter Sticks
- String
- Masses
- Springs
- Wood
- Nails
- Hammer (use caution)
- Rubber Bands
- Copy Paper
- Graph Paper
- Internal brilliance and creativity

Notes:

- Each group member does not have to complete each investigation. You may share the workload. You are expected to share your results with your group members as a summary. All students should be prepared to field questions from the instructor about each graph
- Projecting your results to the class is required. Handwritten results are fine, shown under the document camera.
- Many specific details of these investigations are left to your design. Please review the grading values below BEFORE you conduct your investigation to ensure full credit.

Required for points:

4 _____	Each group member participates in an oral report
3 _____	The number of data points collected in each investigation is described and defended
3 _____	A graph for the spring. Include title, labeled axes, line (curve) of best fit, uniform scale, units, with a brief description of procedures used as well as difficulties that were overcome
3 _____	A graph for the pendulum. Include title, labeled axes, line (curve) of best fit, uniform scale, units, with a brief description of procedures used as well as difficulties that were overcome
3 _____	A graph for the paper shooter. Include title, labeled axes, line (curve) of best fit, uniform scale, units, with a brief description of procedures used as well as difficulties that were overcome
3 _____	Data table accompanying each graph
3 _____	Description and defense of the independent and dependent variable in each case
3 _____	Classification of each relationship as Inverse, Direct, or neither
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