

Optional Experiment Project

Design and create an experiment to test/prove any concept covered this semester.

Max 3 people

Project Graded on:

Hypothesis

Design

Data/Accuracy

Presentation

Conclusion

Safety

Area	Opts	3pts	6pts	9pts	12pts
Hypothesis	Well stated in complete sentences and includes important info and formulas	Missing 1	Missing 2	Missing 3	Missing 4
Design	Original and well thought out and Proves the Hypothesis				
Data/Accuracy	All data is accurate and well displayed and easily understood				
Presentation	Presentation is easily understood and NOT overdone. Clearly demonstrates experiment				
Conclusion	Well written, includes percent error/data summary and statement about hypothesis				
Safety	All procedures safe and no risk of danger to people or pets				

Ideas may use

Phone app accelerometer

Video analysis

Other concepts

Suggested Projects

Physics of:

Playgrounds (i.e.: accel on a swing or merry-go-round)

Driving (i.e. accel while turning and friction)

Motion of Animals (i.e.: accel of cat/dog/etc.)

Sports

Pick a topic and develop a hypothesis

Determine a way to test it

Test it and record data

Organize and analyze data

Form conclusion.

Present it in a Power Point, poster, or other means that present the information and data clearly