

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)

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Project Number

34542

Project Title

True Perpetual Motion Machines: Lessons Not Learned from The Lay of Physics

Abstract

Objectives/Goals

If a perpetual motion machine can be made then it could be used to create electricity or free? The purpose of this project is to find out if a perpetual motion machine is possible and if it could broduce free electricity.

The independent variable in this experiment was the design of the machines. The dependent variable was success rate of the machines. The control of this experiment is gravity, magnet strength, chain, bearings, spring, sprockets and wheels.

Methods/Materials

Four perpetual motion machines were made; the Overbalanced Chain, the Overbalanced Lever Wheel, the Overbalanced Magnet Wheel and the Spring Engine.

Materials Needed: Overbalanced Chain: 4 inch x 18 mch plywood, (b) Screws, (5) Idler Sprocket, and a 40 inch Chain

Weighted knobs, Screws, Bicycle wheel, and Overbalanced Lever Wheel: (8) 3 inch Strap hinges (8) Wheel fork

Overbalanced Magnet Wheel: Cubic inch high powered rare earth magnet, 1 inch Steel Bearing Ball, 8½ inch Diameter Aluminum wheel Aluminum stand, 1 inch wide Aluminum strap 8½ inch long, Stainless steel screws, (8) Brass tubes ½ inch long, Brass mits, and Steel bolt Spring Engine: 4 inch Compression Spring. Telescoping cylinder to hold spring, Skateboard wheel, Aluminum stand, 6 inch Plastic wheel, Steel bolt and Wheel fork

Results

The purpose of this experiment was to determine if these specific perpetual motion machines are possible. The results collected from the experiment show that the perpetual motion machines involved in this experiment are not possible, so they couldn#t produce energy. Research indicates the perpetual motion machines are impossible because they violate the first or second law of thermodynamics or both.

Conclusions/Discussion

According to the data collected, the hypothesis, if a perpetual motion machine can be made then it could be used to create electricity for five, appears to be not supported.

motion machines in the experiment were successful, not even one rotation was None of the perpetual these experiments deln#t work is not to say that can#t work better, there could have been achieved. Si

Summary Statement

If a perpetual motion machine can be made then could it be used to create electricity for free.

Help Received

My mother and father help motivate me with my research and building the devices.