CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY

Name(s)
William C. Jones, III

Project Number
J0111

Project Title
Hovercraft and Laws of Motion

Abstract

Objectives/Goals
My goal was to build a hovercraft that met the basic requirement for lift of up to 200lb and travel in a straight line unless acted upon by another force, then use it to verify basic laws of motion and trajectory.

Methods/Materials
1- 35 5/8# diam. x 3/4# precut plywood disc.
18 volt cordless leaf blower.
4 ft of 6 mil. black plastic.
2- plumbing line insulation tubes.
1- 4# #L# bracket.
1- 1/4# #T# nut and 3/4# screw.
1- roll of duct tape.
1- coffee can lid replaced with a metal plumbing cover.
1/4# staples for T- 50 stapler.

Results
The design of the craft using a battery powered leaf blower which more than met the requirements for lift, enabled me to hover long distances without being impeded which in turn helped to create more accurate tests data collection.

Conclusions/Discussion
I concluded the basic laws of lift, motion and trajectory are correct.

Summary Statement
I wanted to create a realistic way to show the actual effects of the basic laws of lift, motion and trajectory.

Help Received
Dad helped build craft and display and helped with tests.