CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY

Name(s)
Jaylan C. Catacutan

Project Number
J0104

Project Title
Car Aero: How Aerodynamics Affect a Car

Abstract

Objectives/Goals
My goal is to find how the shape and the edges of a car affect top speed, gas mileage, handling and acceleration.

Methods/Materials
I used hobby boards, fans and acrylic to create a wind tunnel and find how air reacts to a car in motion. I used a variety of model cars ranging from 1:24 scale to 1:18 scale.

Results
After testing, i learned that smooth and subtle edges on a car helps increase gas mileage, acceleration, speed and handling.

Conclusions/Discussion
Overall, I have concluded that smooth and subtle lines helps a car all together, i also learnd that spoilers on the rear end of the car help reduce resistance of air on the car for better speed.

Summary Statement
My project is about the effect of aerodynamics, wind resistance and air odrag on a car

Help Received
Dad helped cut materials for the wind tunnel assembly