

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

D. Ziva Shulaker Project Title Sail Away: Air, What a Drag! Dijectives/Goals To see what effect the surface area of an object, such as a vehicle, has on the and
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recorded. The higheset and lowest scores for each sail were discarded, and the average of the remaining
three was calculated.
The results were plotted on a graph. Say Area vs. time for Venicle to travel down ramp.
The results showed that the larger the area of the 'guil' attached to the car, the clower the car traveled down
the ramp
Conclusions/Discussion
The vehicle speed plotted against the area of the sail gave a straight line graph.
I concluded that the larger the area of the sail, the great the air resistance produced, and so the slower the
vehicle went.
However, the results also showed that with sails of the same area, but of different shapes, the vehicle
speed was a little different, so also conclude that air resistance is affected by the shape of the object
travelling through the air, as velles by the surface area.
Summary Statement
This protect is shout ar resistance - the larger the area of an object, the greater the air resistance
$\langle \chi \rangle$
Help Received
None.