

CALIFORNIA STATE SCIENCE FAIR 2002 PROJECT SUMMARY

Name(s)	Project Number
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Project Title Roller Coaster Madness	
Objectives/Goals Abstract	
My project was to determine which modification to a roller coas make it aerodynamic, heavy or neither. Methods/Materials One car was constructed. This car was able to become modified "lid". By only building one car, I eliminated almost all possible on the same wheels. The body of the car was built out of 1 cm th axels out of Legos. The ramps I tested it on (I had two: an inclin slot car tracks. Results The car with added weight averaged out to be much faster than to modifications consistently had the slowest times and the aerody: "no-modification" car. Conclusions/Discussion My conclusion is that the shape of a car makes a difference in it ideal roller coaster car would be aerodynamic AND heavy.	ster car would make it travel the fastest: by adding 30 grams of weight and a foam variables, because all the cars were riding hick foam poster board and the wheels and he and a decline) were constructed out of the other two cars, while the car with no namic car reached times than the s speed, but not as much as its weight. The
Summary Statement The effect of air resistance and weight on roller coaster cars.	
Help Received Friend helped release car in trial runs.	