

## CALIFORNIA STATE SCIENCE FAIR 2004 PROJECT SUMMARY

Name(s) Nicholas L. Okita		Project Number J0226
Project Title Effect of Friction	on Objects in Motion	
Objectives/Goals	Abstract	
This study was conducted to would travel the same relati to study the frictional equat <b>Methods/Materials</b> The effect of friction was in sandpaper). Four objects we each object was made ident each surface five times for a mechanism were constant for <b>Results</b> Each surface resulted in a d traveled by the objects mov changed. The objects went to relative difference in distant observed to have the greates Surprisingly, all objects trav <b>Conclusions/Discussion</b> The results indicate that the sliding surface. Since the re same, different combination conditions. Further, as obse	o determine whether objects of different mixed istance as the material of the sliding sion: Frictional Force =(Coefficient of Frictional Force =(Coefficient of Frictional versity at a strain of the top of the original using coins attached to the top of the original total of 80 measurements. The starting proof each measurement. Infferent average distance traveled for each traveled by each object was also the grast amount of frictional effect based on the veled the same distance on this surface. Infferent average for order of distance traveled by the coefficient is affected by the coefficient is and paper surface, the first of the rough sandpaper surface surface for the rough sandpaper surface surface surface for the rough sandpaper surface surface for the rough sandpaper surface surfa	surface is changed. The objective was betion)*(Normal Force). ood, felt, aluminum foil, and block, eraser, sponge. The weight of object. Each object was shot across oint and force of the shooting a object. However, the distance same relative order as the surfaces urface (lowest frictional effect). The eatest. The sandpaper surface was shortest distance traveled.
Summary Statement		
This project studies the effe	ect of friction on bodies in motion.	
Help Received		

Minimal help was needed. My parents proofread my report and reviewed my work when it was complete.