



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Mandy V. Wong	Project Number 22574
Project Title An Oily Situation	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My project is to determine which lubricant has the lowest friction by measuring what angle does the test block starts to slip.</p> <p>Methods/Materials A total of two drops of oil from seven different lubricants were applied to a glass test block and to a glass ramp. The eighth test was air only. It was used as a standard to compare against the oil test results. The test block was gently squeezed against the glass ramp for the air test and the oil tests. A protractor was used to measure the angle during all the test runs. Each oil sample and air was evaluated five times.</p> <p>Results The WD-40 and the corn oil consistently had the lowest friction when compared to the other lubricant that was tested.</p> <p>Conclusions/Discussion The WD-40 and the corn oil had the lowest friction from the test data which results in lower energy needed for motion.</p>	
Summary Statement My oil lubricant experiment was to measure which lubricant had the least friction in terms at what angle it started to slip on my test apparatus.	
Help Received Father assisted me with building the test set-up and purchasing the supplies; Mr. Balderston advised me on the science fair board.	