



**CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY**

<b>Name(s)</b> <b>Mandy V. Wong</b>	<b>Project Number</b> <b>J1141</b>
<b>Project Title</b> <b>An Oily Situation</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My project is to determine which lubricant has the lowest friction by measuring what angle does the test block starts to slip. <b>Methods/Materials</b> 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. <b>Results</b> The WD-40 and the corn oil consistently had the lowest friction when compared to the other lubricant that was tested. <b>Conclusions/Discussion</b> The WD-40 and the corn oil had the lowest friction from the test data which results in lower energy needed for motion.	
<b>Summary Statement</b> 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.	
<b>Help Received</b> Father assisted me with building the test set-up and purchasing the supplies; Mr. Balderston advised me on the science fair board.	