

CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s) Michael Cloward; Daniel Jaimes; Andrew Speth	Project Number J1504
Project Title Precise Projectiles	
Objectives/Cools Abstract	
 The object was to find out how the angle and force of trajectory affect the Our hypothesis was that the projectile launched with the angle closest to 4 (out of the three that we have chosen) will travel the farthest distance. Methods/Materials The materials used were: a Lego Robotics Inventions System 2.0, Lego U six AA batteries, computer, protractor, and a measuring tape. We used th and 55?) and three different forces (the distance of stretch in the rubber be each combination, measured the distance the projectile traveled and calcu Results The projectile launched at the angle closest to 45? (55?) and the greatest f 10.4 cm) traveled the farthest. Conclusions/Discussion Our hypothesis was correct. This project gave us a greater understanding learned that if you need to launch a projectile the greatest distance, use th the greatest force.	e distance that a projectile travels. 45 degrees and strongest force 71 limate Builders Expansion Set, ree different angles (10?, 20?, ands). We did three trials with lated the average distance. Force (rubber band stretched to of the field of physics. We e angle closest to 45? and with
Summary Statement Angle and force of trajectory affect the distance that a projectile travels.	
Help Received	