



**CALIFORNIA STATE SCIENCE FAIR
2003 PROJECT SUMMARY**

Name(s) Casey Berberian; Silvestre Padilla	Project Number J0204
Project Title What Baseball Brands Bring in the Fans?	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective is to determine which of the following Little League baseballs will travel the farthest being hit with the same amount of force: Worth, Rawlings, ProSport, Wilson. We believe that the most expensive ball, the Wilson, will be of higher quality materials and construction and therefore will travel the farthest.</p> <p>Methods/Materials I built a batting machine out of a clay pigeon target launcher that would consistently swing a bat, mounted to the swing arm, with equal force. I mounted the launcher on a pedestal, which I constructed out 1 1/2 inch square tube iron and 1/2 inch plate to make it waist high. With a Tee ball tee adjusted to the same height to hold the ball, we hit each baseball once, measured the total air and ground distance traveled, and then repeated the process a total of ten times</p> <p>Results Our observations and calculations showed that using the same amount of force, the Worth baseball traveled the farthest, followed in order by Wilson, ProSport, and Rawlings</p> <p>Conclusions/Discussion Our conclusion was that the most expensive baseball does not necessarily mean it will travel farther than a medium priced or low priced baseball when struck with the same amount of force. And, the material that a baseball is made of may have an effect on how far it will travel</p>	
Summary Statement Our project is about determining which of four name brand Little League baseball would travel the farthest when hit with the same amount of force.	
Help Received My father helped me measure the angle to cut the square tubing for the pedestal legs. He gave me permission to use his shop and tools including the cutoff saw, grinder, and arc welder, under his supervision	