



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> <b>Erik R.V. Schoenborn</b>	<b>Project Number</b> <b>J0219</b>
<b>Project Title</b> <b>Fishing with the Pros</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The goal in my project is to find which, out of three poles will cast a weight the farthest. <b>Methods/Materials</b> We used: 1. Three fishing poles of different flexibilities; 2. 25 zip-ties; 3. A standard sized sledge hammer; 4. One piece of blue chalk; 5. The experimenters driveway; 6. A spincasting fishing reel; 7. Making tape; 8. A pencil; 9. A pad of paper; 10. A 1 ounce circle weight; 11. Pole holder. A brief run-down of the procedure is as follows: 1. First the experimenter measures the flexibility of each fishing pole, in turn, by clipping the 1 ounce weight on to the end of each pole and measuring how far down the fishing pole bends. 2. After the experimenter determines the flexibility of each fishing pole he or she labels each fishing pole, pole #1, pole #2, and pole #3. 3. The experimenter then lines up the poles with the tips together. 4. The experimenter then puts a blue piece of tape right above the top of the foam grip on pole #1. 5. Then the experimenter puts the smallest pole up to each other two poles and puts a piece of tape where the first blue tape measures up to the others. 6. Then the experimenter tapes a fishing pole holder on to the end of a sledgehammer. 7. The experimenter zip ties the pole in place on the pole holder with the blue piece of tape at the front part of the fishing pole holder. 8. The experimenter then, using a fishing knot ties the 1/4 ounce walking weight to the end of the fishing line, and brings it out twenty-feet and marks that out on the sidewalk with the chalk. 9. The experimenter stops the line from coming out any farther and pulls the weight out another 1 1/2 feet and marks it again. 10. The experimenter then lets go of the line and measures how far it flies. 11. Record the data and repeat the experiment five times with each pole. <b>Results</b> The stiffest of the poles, pole number three, cast the weight the farthest. <b>Conclusions/Discussion</b> In conclusion the stiffer the pole is the farther it can cast a weight.	
<b>Summary Statement</b> My project is about the flexibility of a fishing pole. I am testing whether the flexibility of a fishing pole affects how far it can cast a (1/4) ounce walking fishing weight.	
<b>Help Received</b> My dad helped me set up the project.	