# I Gotta Biggin

Bassham, Austin

Fishing is a hobby, a sport, and an avocation for some people; it is a big industry. I chose this project to test different types of fishing line, so that I could chose the line that would not break and let the prize winning fish get away. This experiment is beneficial to other fishermen like me that want to use a strong, yet economical fishing line. I tested to see which one, fluorocarbon or monofilament, would hold the most applied weight. I tested each brand of fishing line ten times by attaching a twelve foot piece of fishing line to the PVC pipe with a square knot. Then, I placed the other end of the fishing line in between two brake pads and tightened in a vice. The fish scale was hooked onto the PVC pipe at the other end and pressure was applied by pulling the fish scale. I pulled on the fish scale until the line broke. The numbers displayed on the fish scale showed what poundage the line broke at. I repeated the process for each type of line. I further tested each line in different conditions in order to mimic different weather anglers' encounter: hot, cold, and wet. The results showed that monofilament broke at weaker poundage. All in all, the line that would hold the most applied weight between the two under the different testing conditions was fluorocarbon. Now that I know this, I will buy fluorocarbon so that the big one won't get away.

**Awards Won:**