



**CALIFORNIA STATE SCIENCE FAIR
2003 PROJECT SUMMARY**

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| Name(s) Jamie J. Florance, III | Project Number J0211 |
| Project Title What Performance Part Will Make My Go-ped Go Fastest? | |
| <p style="text-align: center;">Abstract</p> <p>Objectives/Goals To see what performance part installed on my go-ped will increase acceleration and top speed the most.</p> <p>Methods/Materials On my Super Bigfoot Scooter, I tested an X-Can exhaust system, K & N high flow air filter and venturi, and .7 mm drive spindle. I recorded the times and top speeds on a 1/10th mile course, completing six running start and six standing stop trials, for each modification.</p> <p>Results The bigger drive spindle was the single best performance part. My summary of test results gives the average elapsed time and average top speed for each of the 12 tests performed on each modification. Although the K & N air filter produced similar results, the drive spindle cost \$12 less.</p> <p>Conclusions/Discussion The best performance part to add to a scooter is a .7 mm or larger drive spindle. The addition of the K & N air filter increased performance slightly more. The X-Can exhaust system bogs down low end acceleration.</p> | |
| Summary Statement I ran my experiment to see if popular modifications to go-peds actually improve performance. | |
| Help Received Father helped design and carry out testing. Mother proofed report and helped type display. | |