



**CALIFORNIA STATE SCIENCE FAIR
2003 PROJECT SUMMARY**

Name(s) Zachary N. Johnson	Project Number J0115
Project Title At What Angle of Attack Will a Plane Stall?	
Abstract Objectives/Goals My objective was to find the exact degree of angle of attack that a plane would stall. Methods/Materials i built a wind tunnel that got 30 mph in the test section (where the plane is) using a 1/4 horsepower motor (1600 rpm). I also built two small wings and used a scale to test where the wing had stalled. I would change the degree and then test and see if the plane had stalled. Results My results showed that the average degree that a plane would stall was between 30 degrees and 40 degrees. My results agreed with my hypothesis. Conclusions/Discussion I concluded that the wing stalled in various areas because of a faulty scale. They were close but the degree was not exactly the same. If I were to redo this project, I would use another scale.	
Summary Statement My project was meant to find the angle of attack that a plane would stall.	
Help Received Uncle helped build wind tunnel	