

## CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

Name(s)	Project Number
Tyler R.Z. Johnson	<b>SU311</b>
	50311
Project Title	
Shaping Flight	
Objectives/Goals Abstract	
My project goal was to determine if the angle of a plane's wings have a of the plane. I believe that a plane with wings angled closer to the body	direct effect on the average speed
Methods/Materials	will have a greater speed.
Three paper airplanes were made, as well as a launcher to achieve controlled takeoff rate, a timer and	
control. The other two had an extremely obtuse angle, and an extremely acute angle. The planes were	
tested at a controlled indoor area, four times for accuracy. Results	
The plane with the acute (close to the body) wings had a consistent higher speed than the others. The	
obtuse plane flew farther, slower. The average plane was between the of	thers.
After experimentation, my hypothesis was proven correct, and my object	ctive reached. The plane with acute
wings flew the fastest of the three in every test performed. This project	helped my to better understand
topic very well, and I am glad to have this experience for later years of the	my life.
Summary Statement	
My project is about the effect of wing shape on the speed of an airplane	
Help Received	
Principle helped attain supplies and organize project; Father helped wire paint for board.	e launcher; Sister supplied spray