

CALIFORNIA STATE SCIENCE FAIR 2017 PROJECT SUMMARY

Sydney Adcook; Lydia Ignatova	Project Number J0101
Project Title Measuring the Lift of Airfoils Using a Wind	Tunnel
Abstract	
 The objective of this study is to determine if the location of the r the amount of lift generated. Methods/Materials Balsa wood to create airfoils, metric scale, airfoil stand, and win generated when each airfoil was placed into the wind tunnel and negative numbers on the scale, because we were measuring the c Results The airfoil with the maximum thickness the closest to the tip of the airfoil with the maximum thickness furthest away from the tip or the with the maximum thickness between that of the other two airfoid Conclusions/Discussion The airfoil. However, we did not have access to the changed in the way the air flowed around the airfoils to cause this state. 	naximum thickness of an airfoil affects d tunnel. We recorded the amount of lift onto the scale. The lift is displayed in lecrease in weight. the airfoil generated the most lift, the reated the second-most lift, and the airfoil ls produced the least lift. thickness does have an effect upon the required instruments to determine what is change.

We completed this project without significant help from any professional figures. We designed and constructed the airfoils ourselves, and ran the trials without any help.