

CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Name(s)	Project Number
Sona N. Shah	J1536
Project Title The Twists and Turns of Light	
Objectives/Goals My goal was to learn whether the density of a liquid me	
My goal was to learn whether the density of a liquid me thought that the density of a liquid medium would affect molecules are(denser), there will be more collisions. T bounce off of, causing light rays to bend.	et the way it refracts light because the closer the
Methods/Materials First, make a small lighthouse with six slits out of const place each of the liquids (water, water with two teaspoor club soda, syrup, Sprite, vinegar, Canola oil, and an em light, and record the distance between the focal point at Results	ons of salt, water with two teaspoons of glucose, pty cup) 3 inches away from the house, turn on the
I did my experiment five times. Water had a distance of water w/ salt-1.6in., water w/ glucose-1.7in., Club Soda every time. Except Canola oil had a .9 inch distance th times.	n-1.9in., syrup4in., Sprite-1.7in., vinegar-1.8in.,
Conclusions/Discussion My hypothesis was correct. The density of a liquid merexperiment, I found that as I tested denser liquids, the rest to the cup. So, as density increased, refration does, too affected by the density of liquid medium. I also learned human eyesight.	efraction increased and the focal point came closer . In this experiments, I learned that refraction is
Summary Statement	
My project is about whether the density of a liquid me	dium affects the way it refracts light.
Help Received Mohter helped me collect my materials and my Dad he	bed me when I had any unanswered questions.