



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Alex C. Hoover	Project Number 22766
Project Title Searching for Light	
Objectives/Goals My objective was to study plant growth and determine if plant stems can move around obstacles toward a light source. My hypothesis was, "If plant stems can move toward a light source, then plant stems can move around obstacles that they may encounter." Abstract Methods/Materials I planted one lima bean seed in each of eighteen pots and waited for them to sprout. Once they sprouted, I moved six pots each into three boxes with holes cut in the top for a light source. One box had no dividers in it, one had two, and the last one had three. Then, I began taking daily pictures and records of the plants' growth. Results In Box 1 the plants grew straight up toward the hole in the top of the box. In Box 2 the plants grew up and around the one obstacle. The plants in Box 3 bent twice to curve around the two obstacles. Conclusions/Discussion My hypothesis is correct, "If plant stems move toward a light source, then plant stems can move around obstacles that they may encounter." The plants curved their way around the foam core shelves toward the light source at the top of the boxes.	
Summary Statement My project tries to find out if plants can grow around obstacles toward a light source	
Help Received Mom helped with some of the typing and board matting. Dad helped me set up one graph so I could do the rest of them.	