



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Allison A. Lopez	Project Number J1617
Project Title The Effects of Colored Light on Plants	
Abstract Objectives/Goals The objective of my project was to find out which color of light plants grow best in. Methods/Materials Seven pots with bean plants were grown with six cellophane structures to go over six of them. The seventh pot received natural light. I measured each plant in each pot about every other day. All the pots were put by the window and rotated everyday so they would get the same amount of light. Results The plants with yellow cellophane over them grew the best followed closely by the green cellophane-covered pot. The orange and blue cellophane-covered plants were also successful. The purple cellophane-covered plants grew well, but not as fast, as did the natural lighted plants. The plants with red cellophane covering them did not grow well, and at one point even shrank! Conclusions/Discussion These results happened as they did most likely because of the greenhouse effect. The cellophane structures trapped in heat and moisture, therefore allowing the plants that were covered by them to grow faster. The plants under the natural light did not have a cover over them. The red cellophane-covered plants grew as they did probably because of the color.	
Summary Statement My project is about how different colors of light affect plant growth and which color of light plants grow best in.	
Help Received Mother helped in making cellophane structures and Father helped by correcting graphs.	