



**CALIFORNIA STATE SCIENCE FAIR
2009 PROJECT SUMMARY**

Name(s) Lorene J. Chung	Project Number S2005
Project Title UV Radiation and Plant Pigmentation	
Abstract Objectives/Goals To find out the effects that UV light has on plant growth, development, and pigmentation. Methods/Materials Materials Used <ul style="list-style-type: none">-Spectrophotometer-Spinach-Cuvettes-DPIP-Phosphate buffer-UV Bulb/Lamp-Distilled water-Blender-Cheese Cloth-Stop watch-Tissues-Ice-Hot plate-Large Beakers-Foil Results The spinach that was exposed to UV light displayed a lower transmittance than the spinach that was exposed to regular sunlight. Conclusions/Discussion My hypothesis was correct because the spinach that was exposed to the UV lamp had a lower transmittance percent compared to the spinach that had been exposed to regular sunlight. This means that the chloroplast became inactive which halts photosynthesis. Therefore, UV light is more degenerative than regular light.	
Summary Statement My project tests the effects of UV raditions on plant pigmentation and development.	
Help Received My school let me borrow materials and a spectrophotometer.	