



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Quenten A. Millhauser	Project Number J0515
Project Title The Effects of Monochromatic Radiation on the Decomposition Rate of H₂O₂	
Abstract Objectives/Goals The objective of this project is to find out an effective method to decrease the amount of environmental pollution that happens from improper use of hydrogen peroxide. Methods/Materials The whole procedure took place in a dark room in order to get the best results from the experiment. The colors used in this experiment were red, yellow, green, blue and purple. According to the measurments, the average numbers for every color calculated and converted to graphs to see the effects of light spectrums to the decomposition of hydrogen peroxide. Results Red light decomposed hydrogen peroxide more than the other colors. The least effective light spectrum on decomposition was violet. Conclusions/Discussion Our research showed us that the decomposition rate of H ₂ O ₂ is inversely propotional to the light wavelength	
Summary Statement It was about watching H ₂ O ₂ decompose with different colored lights of the light spectrum.	
Help Received My teacher helped me with project, he was my sponsor and helped me with it. He went over the grammar of my research paper. My principal and teacher went over the scientific part of my research paper. My teacher's friend checked the computer part of my research paper. Last my teacher's wife supported me.	