



**CALIFORNIA STATE SCIENCE FAIR
2015 PROJECT SUMMARY**

Name(s) Eleanor M. Mason	Project Number J1718
Project Title Determining the Color of Light That Has the Most Visibility in Fog	
<div><div>Objectives/Goals My project was to determine the color of light that has the most visibility in fog. I believed that yellow light would have the most visibility in fog.</div><div>Methods/Materials I tested my project by taking a light meter, a lemonade container filled with water, and a light, and putting the objects in a line. I turned on the light and measured the brightness with the light meter. I placed different colors of light filters in front of the light to change the color of the light beam. For fog, I placed drops of milk in the water that was in the lemonade bottle. I measured the brightness of different colors of light that passed through set amounts of milk fog.</div><div>Results I found that red light lost the least percentage of the light through fog, but yellow was the brightest filtered light through fog.</div><div>Conclusions/Discussion My conclusion is that red or yellow light would be the best color of light to use in a headlight when in fog.</div></div>	
Summary Statement My project is about determining the color of light with the most visibility when in fog, and with that, reducing the risk of accidents in fog.	
Help Received My mom helped me with the testing and with some of the typing. My dad helped set up the experiment.	