

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s) **Project Number** Eleanor M. Mason 35144 **Project Title** Determining the Color of Light That Has the Most Visibility in Fog **Abstract Objectives/Goals** My project was to determine the color of light that has the most visibility in log eved that yellow light would have the most visibility in fog. 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. In easured the brightness of different colors of light that passed through set amounts of milk fog. **Results** I found that red light lost the least percentage of the light through fog but yellow was the brightest filtered light through fog. **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. **Summary Statement** My project is about termining 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.