



**CALIFORNIA STATE SCIENCE FAIR  
2003 PROJECT SUMMARY**

<b>Name(s)</b> <b>Carissa B. Cummings</b>	<b>Project Number</b> <b>J0309</b>
<b>Project Title</b> <b>Color Fast or Color Slow: Which Color Is Best in Show?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My problem statement was: Does reaction time to a light stimulus depend on the color of the light? I tested to see if one specific color had a faster reaction time than another. I hypothesized that the reaction time will not be the same for all tested colors. <b>Methods/Materials</b> 1 Photographic Color Enlarger, 1 Oscilloscope, 1 On Switch, 1 Off Switch, 1 White Box, 10 Data Sheets, Low Voltage Wire, 1 9V Battery, 1 9V Battery Connector, 9 Colors of Light, 10 Test Subjects, Source of AC Power, 2 Small Aluminium Boxes, 1 BNC Connector Wire, Chassis Punch, 1 CD Player, 1 Drill Press with drill bits, 1 T-Bevel, 1 Table Saw <b>Results</b> The color blue had the slowest reaction time. The color white had the fastest reaction time, but magenta had the second fastest reaction time. <b>Conclusions/Discussion</b> From this experiment, I conclude that the subtractive colors of yellow, magenta, cyan and white have the fastest average reaction times.	
<b>Summary Statement</b> I tested the reaction time of people to ten different colors of light.	
<b>Help Received</b> My father helped me use the table saw, the drill press and the other tools. He helped me acquire the oscilloscope and the color head.	