



# CALIFORNIA STATE SCIENCE FAIR 2011 PROJECT SUMMARY

<b>Name(s)</b> Spencer E. McVeigh	<b>Project Number</b>  31278
<b>Project Title</b> From the Corner of the Eye...	
<b>Objectives/Goals</b> To determine which colors a human's dominant and non-dominant eye distinguish the soonest through peripheral vision. <b>Abstract</b> <b>Methods/Materials</b> 4 cm by 21.4 cm sheet of red paper 4 cm by 21.5 cm sheet of light red paper 4 cm by 21.5 cm sheet of blue paper 4 cm by 21.5 cm sheet of light blue paper 4 cm by 21.5 cm sheet of black paper 4 cm by 21.5 cm sheet of white paper 60 cm by 90 cm black foam board <b>Results</b> For red, 15 subjects chose it the soonest using their dominant eye, and 14 subjects chose it the soonest using their non-dominant eye. For pink, 7 subjects chose it the soonest on their dominant eye, and 11 subjects chose it the soonest on their non-dominant eye. For blue, 31 subjects chose it the soonest on their dominant eye, and 25 subjects chose it the soonest on their non-dominant eye. For light blue, 13 subjects chose it the soonest on their dominant eye, and 16 subjects chose it the soonest on their non-dominant eye. For black, 14 subjects chose it the soonest on their dominant eye, and 13 subjects chose it the soonest on their non-dominant eye. For white, 26 subjects chose it the soonest on their dominant eye, and 27 subjects chose it the soonest on their non-dominant eye. <b>Conclusions/Discussion</b> The hypothesis of this experiment was that a human's dominant eye will see a brighter color the soonest and a human's non-dominant eye will see a darker color the soonest while using peripheral vision. The purpose of this was to determine which colors the dominant and non-dominant eye distinguishes the best with peripheral vision. The color that was overall seen the most with the dominant eye was blue, a total of 31 subjects. The color that was overall seen the least with the dominant eye was pink, a total of only 7 subjects. The color that was overall seen the most with the non-dominant eye was white, a total of 27 subjects. The color that was overall seen the least with the non-dominant eye was also pink, a total of only 11 subjects. The hypothesis was proven to be incorrect. A human's dominant eye did not distinguish a brighter color the soonest; it saw blue the soonest, which is a darker color. A human's non-dominant eye did not	
<b>Summary Statement</b> This project is about which colors a human's dominant and non-dominant eye distinguish the soonest through peripheral vision.	
<b>Help Received</b> Teacher informed of GSDSEF guidelines.	