



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Brittany J. Allison	Project Number J1001
Project Title Doggy Vision	
Objectives/Goals The point of my research and the overall concept of this project is how dogs see the world, a common question in my mind prior to this project. My specific question for experimentation was: If a dog was concentrating on an object in front of it, which color moving object in its peripheral vision would distract it the fastest? Through experiments with my dog, I hoped to find the answer and make sure it matches the facts of my research.	
Abstract The point of my research and the overall concept of this project is how dogs see the world, a common question in my mind prior to this project. My specific question for experimentation was: If a dog was concentrating on an object in front of it, which color moving object in its peripheral vision would distract it the fastest? Through experiments with my dog, I hoped to find the answer and make sure it matches the facts of my research.	
Methods/Materials Dog; Green paper; Yellow paper; Black paper; Blue paper; Stopwatch; Bones. 1)Tell dog to sit still. 2)Have a partner hold a bone in front of it; it should watch intently. 3)In the dog's peripheral vision, wave a color paper. 4)Time how long it takes for the dog to show any sign of looking your way. 5)Record the time in seconds and repeat twice. 6)Repeat steps 1-5 for each remaining color paper.	
Results Color Trial 1 Trial 2 Trial 3 Average Black 6 10 18 11 Yellow 3 7 11 7 Blue 5 8 10 8 Green 18 20 45 28 *The numbers represent the time (seconds) for the dog to be distracted.	
Conclusions/Discussion After doing my research, conducting my experiment, and analyzing the results, I found that I still had questions that weren't answered. I understand that there are definite restrictions to my experimentation, and some questions that I may never get answered. Some questions could have been answered by tweaking my experiment to have multiple variables. I could have tested multiple breeds, tested a wider range of colors, tried moving and non-moving objects, etc. Others may just involve more research, such as #Do dogs have the ability to read?# or #Why is a dog's eyesight different from a human's?# or #What is the farthest distance that a dog can see?# All these can be answered with further testing and investigation, which is how science builds upon itself.	
Summary Statement My project involves researching and testing dogs' vision, and, most importantly, which colors they can see better than others.	
Help Received I thank Mrs. Rhodes for helping me step by step through the report process, my English teacher Mrs. Goeser for helping me edit my research paper, Mrs. Karo for helping me with my results chart, my mom for being the bone-holder, and my Dad for being the timer.	