



Name(s)	Project Number
Matthew G. Austin	J1001
Project Title	
Are Dogs Colorblind?	
Purpose: To determine if dogs are colorblind.	
Hypothesis: Dogs are able to see at least some shades of co	lor.
Methods/Materials	d construction nonen to determine which colors
1. Take black and white pictures of an assortment of colore appear to have similar and dissimilar degrees of brightness	
2. Cover two jars with different colored construction paper	
with black and white film. Cover the third jar with another color whose photograph shade is distinctly	
different from the other two jars.	
3. The dog will be trained to go to one of the similar shaded dog chooses the correct jar reward it with a treat.	I jars from the differently shaded jar. When the
4. Replace the different shaded jar with the similar shaded j	ar The dog needs color vision to distinguish
between the two jars, since with complete color blindness the two colors would appear to be the same	
shade.	
5. Switch positions of the jars and test the dog 25 times eac treat. Chart the number of correct and incorrect responses.	h trial. If the dog is correct, reward him with a
Materials: Colored construction paper, Camera, 3 glass jars Results	, 2 dogs any breed, sex, or age, dog treats
Yellow and violet were chosen as similar colors in the black	
blindness. The dogs chose the correct yellow jar in 72% of	the trials.
Conclusions/Discussion	precognize the vellow jar as a treat jar. The
In the first part of my experiment, I trained Max and Sam to next step in my experiment tested if Max and Sam could pi- trials Sam chose the correct yellow jar 52% of the time whi trials. Sam was retested several days later and chose the ye The second half of my experiment tested if Max and Sar violet jar. Even though yellow and violet appear to be simi were able to choose the correct yellow jar 72% of the trials, can see some shades of color.	ck the yellow jar from the red jar. In the first le Max chose the correct yellow jar 84% of the ellow jar correctly 76% of the trials. n could distinguish between a yellow jar and a lar shades in black and white photos, the dogs
Summary Statement	
I wanted to determine if dogs are in fact completely colorbl veterinarians believe.	ind, as many people including many
Help Received	
Mother helped take pictures and record data. Dad kept one tested. My teacher, Ms. Kavern, taught me how to write the	
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