



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Megan R. Zink	Project Number J2021
Project Title Light vs. Dark	
Abstract Objectives/Goals Before I started doing my experimant, I wondered why in the winter there weren't a lot of button quail eggs in our aviary, but in the summer there were many eggs. My goal was to prove my hypothesis: Would a button quail lay more eggs in an all light environment than a quail in a no light envirnment. I also tested the eggs' circumference in millimeters. Methods/Materials I used chicken wire, sand, duct tape, food dishes, boxes, and a plant light to make my structure that the birds were going to live in for the week I was testing. I recorded my data every night at approximately the same time and gave them all new water and food. Results My results were that the all light quail laid five eggs while the no light quail laid three eggs and the half and half quail laid none. My results for the circumference of the eggs were for the all light envirnment: 65mm, 62mm, 0mm, 65mm, 62mm, 0mm, and 65mm. For the no light envirnment: day 4, 66mm, day 5, 63mm, and the second egg laid on day 5, 64mm. Conclusions/Discussion In conclusion, I found out that my hypothesis was correct. I think that the no light quail laid eggs when I thought it would not was because the box it was in protected it from the weather while the half and half was not protected from the weather. When I was testing, Santa Barbara was colder then usual so that might have changed my data.	
Summary Statement My project was about whether our button quail would lay more eggs in an all light environment than a quail in a no light environment and whether it affected the circumference of the eggs.	
Help Received Mom helped with report; Dad helped with cage building; Patty Murphy helped by being my mentor and answering questions I needed to know; and Ms. Wilson(science teacher) for her comments when reviewing my report.	