



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> <b>Johannah R. Fernandes</b>	<b>Project Number</b> <b>J1908</b>
<b>Project Title</b> <b>Pavlov's Chicken: A Study in Classical Conditioning</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My objective was to determine if chickens will exhibit the conditioned response of coming to the gate with the ringing of a telephone. <b>Methods/Materials</b> My hens (127 total; 64 Leghorns, 63 Brown hens) were already conditioned to come to the fence when I appear .. knowing that I will feed them a treat of scratch feed. I rang the telephone without me present to make sure the hens did not come to the gate with a bell alone. I did this for two days. I then rang the bell AND feed them scratch, at the same time, and did this once daily for 3 weeks. I then rang the telephone without me present and observed results through a fence to see if they exhibited a conditioned response to a bell. <b>Results</b> When the telephone alone was rang - 67% of the Leghorn hens and 78% of the Brown hens exhibited the conditioned response of coming to the fence. <b>Conclusions/Discussion</b> I accepted my hypothesis of Hens Will Exhibit the Conditioned Response of Coming to the Fence when the Bell From a Telephone is Rang. Not all of the hens came to the fence, however a majority from each breed did. From my conclusions, I have three new possibilities that dovetail from my findings. I am anxious to discuss these and do follow up studies.	
<b>Summary Statement</b> My project determines that chickens will exhibit a conditioned response.	
<b>Help Received</b> Mom and Dad helped with holding and ringing the phone while I scattered the scratch feed. Mom helped with graphs.	