

## CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Elan D. Lee	J1014
Project Title	
Do Rats Learn Faster with Peer Pressure?	
Objectives/Goals Abstract	
The question asked was will a rat trained in a dual chamber skinner be that has already been trained? My hypothesis was that a rat trained we press the lever faster than if it learned alone. Methods/Materials	
To test this hypothesis a dual chamber Skinner box was built providi were separated with Plexiglas so they can observe each other but are to press the lever for food was determined for one solo rat. This time rats that were trained with the demonstrator rat that was already train sessions to achieve final learning of task was recorded. Behavior wa approximating lever; SB - rat is rewarded for inadvertently touching lever but is unsure of cause of reward; and WB - rat is obviously pus Final learning was considered WB 4 times in a row. <b>Results</b>	not together. The time a rat learned e was compared with five observer ed. The number of 5-minute training is categorized as NB - rat is reward by lever; B - rat is rewarded for pushing
The time to achieve learning the task of pressing the Skinner box for sessions. The average training time for the 5 observer rats was 24.7 s	
<b>Conclusions/Discussion</b> Rats learned faster with peer pressure. Rats exhibit social behavior at obtain a desired goal. Future experiments can be repeated with differ the demonstrator rat is not simply smarter than the observer rats. Oth experiment could include observer rats being trained by a demonstrat food. Many more rats and repetition of the experiment would be requ	rent demonstrator rats to insure that her types of controls in this tor that is getting free food or no
Summary Statement	
Using a dual chamber Skinner box, it was determined that rats learn faster to press a lever on a skinner box when placed near a demonstrator rat that was already trained.	
Help Received My father assisted me solder the wires together on this Skinner Box.	