



**CALIFORNIA STATE SCIENCE FAIR  
2006 PROJECT SUMMARY**

<b>Name(s)</b> Amanda Rudnick; Susan Vicuna	<b>Project Number</b> <b>J1919</b>
<b>Project Title</b> <b>Do Bees Buzz For Candles?</b>	
<b>Objectives/Goals</b> Our objective was to see if bees are attracted to scents.	
<b>Abstract</b>	
<b>Methods/Materials</b> 1. 100 honeybees; 2. 10 scented candles and 1 unscented candle ; 3. flashlight; 4. 2 PVC Pipes, 4 elbow connectors, and 4 T connectors; 5. Hack saw; 6. screen netting; 7. graph paper; 8. vacuum; 9. scissors; 10. centimeter ruler; 11. a room dark room with temperature set to 21 degrees Celsius (70 degrees F) ; 12. 1-2 dish towels; 13. hot glue gun; 14. timer; 15. note book; 16. pen or pencil; 17. 4 cm candles holders, 1 cm tall.	
A brief procedure of the experiment is as follows: 1. Build a 51cm by 61cm by 51cm cage out of PVC Pipe, elbow and T connectors, and screen netting; 2. Cut a 53cm by 63 ½ cm piece of graph paper; 3. In the center of the paper draw a circle and then a bigger circle around it; 4. Take 10 different scented candles and 1 unscented candle and dye them black; 5. Put the candles in the cage evenly spaced and put ten of the honeybees inside; 6. Place the cage over the graph paper; 7. Time for 10 minutes and record how many honeybees are attracted to each candle.	
<b>Results</b> The sweet honeysuckle candle attracted the most bees at an average of 3 (25%).	
<b>Conclusions/Discussion</b> The hypothesis was if one hundred honeybees smell a sweet honeysuckle scented candle, then they will be most attracted to that candle. The results showed that the sweet honeysuckle scented candle attracted the most honeybees. Therefore, the hypothesis was supported.  The results showed that the sweet honeysuckle scented candle attracted the most honeybees.	
<b>Summary Statement</b> Our project is about the affect of candle fragrances on bees.	
<b>Help Received</b> Joe and Pam Romance supplied bees; Pam Romance helped build the cage.	