



**CALIFORNIA STATE SCIENCE FAIR
2013 PROJECT SUMMARY**

Name(s) Aleeque Lori Marselian	Project Number J2211
Project Title Fruit Flies In Hot, Cold, and Room Temperature	
Abstract Objectives/Goals The objective of my project is to find the effect of temperature on the development time of a <i>Drosophila melanogaster</i> . My hypothesis is that as the temperature increases the development time of the <i>drosophila melanogaster</i> decreases. Methods/Materials First I set the food for the fruit fly on the bottom of each container. Then, I separated the male and female fruit flies. I put five female and five male flies in each container. I let the flies mate. Once they reproduced I took out the adult flies, leaving only the eggs. Lastly, I observed them for their development from egg to adult in their experimental temperatures. Results It was found that development times decrease at higher temperatures. It took the fruit flies in the cold temperature condition 22 days to develop, while it took the hot temperature fruit flies 11 days to develop. The flies in room temperature took about 12 days to develop.	
Summary Statement to find the effect of temperature on the development time of a <i>Drosophila melanogaster</i> .	
Help Received Mrs. Gevorkian, my science teacher.	