



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> <b>Jessica M. Ramos</b>	<b>Project Number</b> <b>S1909</b>
<b>Project Title</b> <b>Do Plants Have a Sweet Tooth?</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The purpose of my science fair experiment is to conduct an experiment that will determine whether or not sugar helps plants stay fresh for a longer period of time. An answer will be found at the end of the procedure. Though it is unsure as of right now to know if sugar is in fact a preservative, the end of the procedure will dictate one way or the other. Also, by the end of my project, I expect to garner the answers and explanations as to why I got the results. If sugar is proved to be a preservative, I hope to figure out the exact reasons for this, the ingredients or the chemistry behind this scientific happening. <b>Methods/Materials</b> # 3 plants # 2-3 quarts of distilled water # 1 pound of sugar # Measuring cup # Spoon # Digital Camera <b>Results</b> DAY 1 DAY 3 DAY 6 DAY 9 NO Change Obvious change. Plant #2 is somewhat wilted Plant #3 is brown. Changes on Day 3 are continuous. Plant #1 looks healthy. Pant #1 still looks healthy. Plant #2 is still alive but in grave condition. Plant #3 has dead flowers and is dried a little. <b>Conclusions/Discussion</b> By the third day of conducting my experiment, I was able to determine whether or not my hypothesis was proving to be true. The results were surprising. As stated in my hypothesis, I was expecting the plants with the sugar water solution to grow faster and stay fresh longer. However, on the third day I noticed that the plants that I had put sugar in the water were beginning to wilt and die. In other words, Plants #2 and #3 were looking worse than Plant #1 that I had watered with normal tap water. Another observation I made was that the leaves on Plant #3 were sticky while the others were not. Though these observations did not prove my hypothesis completely right, it does not prove it totally wrong either. Plant #2 showed	
<b>Summary Statement</b> Sugar can have either a positive or negative effect on a plant's growth depending on the amounts given.	
<b>Help Received</b> None	