



**CALIFORNIA STATE SCIENCE FAIR  
2007 PROJECT SUMMARY**

<b>Name(s)</b> Serena A. Ahmad	<b>Project Number</b> <b>J0401</b>
<b>Project Title</b> <b>Vitamin C (Ascorbic Acid), Grapefruits, and Me</b>	
<b>Abstract</b> <b>Objectives/Goals</b> How does shelf life affect the amount of Vitamin C (Ascorbic Acid) in grapefruits? Will there be more, less, or the same amount of Vitamin C in a grapefruit that has been sitting on a shelf for one to four weeks opposed to a freshly picked grapefruit? <b>Methods/Materials</b> Two identical grapefruit trees in the same location and with the same sized fruit. A black marker-for labeling, Ascorbic Acid Titrant-118Ml(4 oz)MDB*; Sulfuric Acid Standard Solution,5.25N-118Ml(4 oz)MDB*; Starch Indicator Solution-118Ml(4 oz)MDB*; Erlenmeyer Flask, 125 Ml; Centrifuge Tube, 15Ml, polystyrene; Demineralized water; MDB*: Marked Dropping Bottle <b>Results</b> TESTING DATE-2/18/07 (The grapefruits were picked on the date shown) The results were: 1/14/07 - 48 drops of Ascorbic Acid Titrant(AAT)in Tree A's solution/43 drops into Tree B's. 1/18/07 - 39 drops of AAT into Tree A's solution/36 drops into Tree B's. 1/21/07 - 37 drops of AAT into Tree A's solution/35 drops into Tree B's. 1/25/07 - 36 drops of AAT into Tree A's solution/35 drops into Tree B's. 1/28/07 - 36 drops of AAT into Tree A's solution/33 drops into Tree B's. 2/1/07 - 41 drops of AAT into Tree A's solution/26 drops into Tree B's. 2/4/07 - 36 drops of AAT into Tree A's solution/30 drops into Tree B's. 2/08/07 - 31 drops of AAT into Tree A's solution/22 drops into Tree B's. 2/11/07 - 27 drops of AAT into Tree A's solution/17 drops into Tree B's. 2/15/07 - 20 drops of AAT into Tree A's solution/19 drops into Tree B's. 02/18/07 - 8 drops of AAT into Tree A's solution/4 drops into Tree B's. <b>Conclusions/Discussion</b> The research, data, and experiment results, proved my hypothesis to be correct!The grapefruits picked 4 weeks ago had less Vitamin C than those freshly picked.	
<b>Summary Statement</b> The purpose of this experiment is to figure out if a shelved grapefruit is better for your body than a freshly picked grapefruit.	
<b>Help Received</b> Mother helped with taking the pictures and putting the pictures and headings on the board.	