



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

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| <b>Name(s)</b><br><b>Daniela N. Alvarez</b>   | <b>Project Number</b><br><br>31623 |
| <b>Project Title</b><br><b>VitaPlants</b>   |                                    |
| <b>Abstract</b><br><b>Objectives/Goals</b><br>My project's goal was to determine if vitamins affected the growth of a plant. For this purpose, I used Vitamin B, C, and D and Tap Water.<br><b>Methods/Materials</b><br>Three bean seeds were planted in each cup. Four cups were used for each vitamin. Four more cups were used to test tap water. I watered them everyday with 2 oz. of water for the tap water plants or 2 oz. of water mixed with 1 vitamin caplet, either B, C, or D. I observed the plants every day for 12 days. Once the beans sprouted, I measured the height and I rated the color of foliage using a color scale ranging from yellow/brown to bright green.<br><b>Results</b><br>As a result, Vitamin D helped the plants grow to an average height of 11 inches, the plants' stems thicker and the leaves greener. Vitamin B helped the plants grow taller, with an average height of 12 inches.<br><b>Conclusions/Discussion</b><br>My conclusion is that Vitamin D made plants grow tall and look healthier, even though vitamin B made them grow a little taller. |                                    |
| <b>Summary Statement</b><br>I wanted to see if vitamins affected the growth of plants   |                                    |
| <b>Help Received</b><br>Mother helped mount board .   |                                    |