



**CALIFORNIA STATE SCIENCE FAIR  
2011 PROJECT SUMMARY**

<b>Name(s)</b> <b>Willow K. Muir</b>	<b>Project Number</b>  31812
<b>Project Title</b> <b>The Effects of Different Types of Music on Plants</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of this experiment was to determine whether different types of music -- blues, classical, hard rock, and country -- affect plant growth differently. My hypothesis was that plants listening to classical music would grow the best. <b>Methods/Materials</b> Four pots with six pea seeds in each pot were each exposed to different types of music. A fifth pot was not exposed to music. A four inch speaker was taped to the side of each plastic pot, facing inward, and hard rock, classical, country, blues, or no music was played over the entire course of the twenty day experiment. Plant growth was measured over time and the results were compared. <b>Results</b> The plants exposed to blues music grew the most on average, and directly after them came the control group, which was not exposed to music. The classical music group did the next best, then the country music group. The plants exposed to hard rock music grew the least. <b>Conclusions/Discussion</b> My hypothesis was not supported by the results. I had thought that the plants exposed to classical would grow best, but the plants exposed to blues grew the best.	
<b>Summary Statement</b> When plants were exposed to classical, blues, country, hard rock, or no music, the plants exposed to blues music grew the best.	
<b>Help Received</b> My Dad helped me with wiring the CD players to the amplifier and the amplifier to the speakers. He taught me how to use a spreadsheet to graph the data and he helped me make the music CDs.	