



**CALIFORNIA STATE SCIENCE FAIR  
2007 PROJECT SUMMARY**

<b>Name(s)</b> <b>Elexis S. Padron</b>	<b>Project Number</b> <b>J1524</b>
<b>Project Title</b> <b>The Effects of Magnets on Radish Plant Growth</b>	
<p style="text-align: center;"><b>Abstract</b></p> <p><b>Objectives/Goals</b> To investigate the affects of magnets and magnetic fields on the growth rates of radish plants.</p> <p><b>Methods/Materials</b> MATERIALS : sparkler radish seeds, donut magnets, self-watering miniature pots, plant trays, spray bottle, labels or labelmaker, pen or pencil, ruler, and artificial lighting METHODS: 1.Filled eight self-watering miniature pots to the top with potting soil. 2.In four of the eight pots, placed two donut magnets about an inch apart. The magnets were attracting each other. 3. Poked two holes in the soil in each pot with the end of a pen. 4. Placed one seed in each hole. 5. Covered each hole with soil. 6. Placed the two different groups in two separate plant trays,forming a small square. 7. Placed each plant tray under artificial light. 8. Sprayed the soil of each plant with a spray bottle four times. 9. Added one cup 10.Labeled one group of four plants as control plants: 11.Labeled the other group of four plants as magnet/plants: 12.Counted each day to the plant#s germination. (The estimated time is 4-6 days). 13.Once the plants germinated, measured their height in centimeters every twenty-four hours.</p> <p><b>Results</b> The results of my investigation indicate that magnets do have an effect on plant growth. Control group results: On average, the control group grew taller.The leaves were more numerous and taller.The base of the plants were thicker and redder. Magnet/Plant group results:On average, this group was shorter than the control group.There were fewer and smaller leaves.The base of the plant was flimsy and mainly white.</p> <p><b>Conclusions/Discussion</b> My hypothesis was correct; #the control group will grow taller and faster than the magnet/plant group.# I discovered that the magnets did have an effect on the radish plants. The control group only grew a centimeter or two taller. However, I observed that the main effect was on the leaves and base of the plants.</p>	
<b>Summary Statement</b> My project is about investigating the affects magnets have on plant growth.	
<b>Help Received</b> Father helped type (not write) the introduction as displayed on my display board; Mother helped cut and glue the paper staight.	