

6/30/15

Question: Does calcium affect plant growth?

Hypothesis: Calcium will make the plants grow faster.

Experiment:

1. Took two identical pots of the same size and shape, and filled them with the same soil.
2. Weighed out 3 grams of powdered calcium. Sprinkled calcium on top of the soil evenly.
3. Planted 3 tomato plants in each pot.

Initial measurements

	plant 1	plant 2	plant 3
Calcium Soil (pot 1)	9 cm	11 cm	10 cm
No Calcium Soil (pot 2)	10 cm	9 cm	11 cm

4. Placed pots in identical sunlight conditions.

5. Watered each pot with 4 cups of water spread evenly.

7/1/15 - watered 4 cups of water to each pot.

7/2/15 - watered 4 cups of water to each pot.  damaged

7/3/15 - watered 4 cups of water to each pot.

* snail munched on plant 2 in pot 1.

7/4/15 - watered 4 cups of water to each pot.

7/5/15 - watered 4 cups of water to each pot.

7/6/15 - watered 4 cups of water to each pot.

7/7/15 - watered 4 cups of water to each pot.

	plant 1	plant 2	plant 3
pot 1	14	16	14
pot 2	13	12	14

7/8/15 - watered 4 cups to each pot.

7/9/15 - Accidentally spilt water for pot 2 so it was not exactly 4 cups.
4 cups in pot 1.

7/10/15 - Watered 4 cups to each pot.

7/11/15 - watered 4 cups to each pot.

7/12/15 - Watered 4 cups to each pot.

7/13/15 - watered 4 cups of water to each pot.

7/14/15 - put 4 cups of water evenly to each pot.

7/15/15 - put 4 cups of water evenly to each pot.

	plant 1	plant 2	plant 3
pot 1	20	22	19
pot 2	13	17	16

7/16/15 watered 4 cups of water to each pot.

7/17/15 watered 4 cups of water to each pot.

7/17/15 watered 4 cups of water to each pot. They looked a little
wiltly.

Watered 4 cups of water to each pot.

Watered 4 cups of water to each pot. Increased amount

7/20/15 The temperature is very hot. plants look wilted. Increased amount

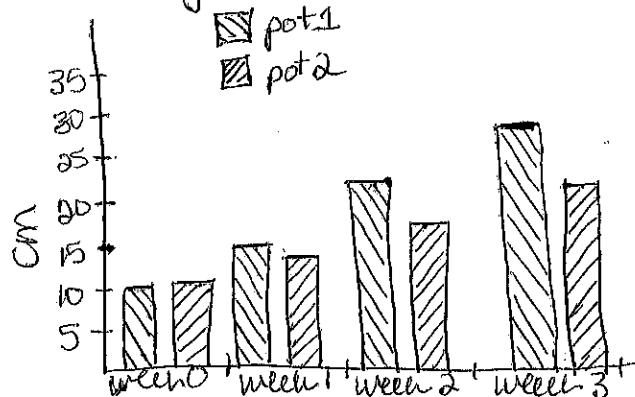
watered in each pot to 5 cups each pot.

7/21/15 Increased amount of water again to 6 cups each pot.

7/22/15

	plant 1	plant 2	plant 3
pot 1	25	30	24
pot 2	21	17	21

Summary of data collected



Conclusion:

looking at the data the tomato plants, that were grown in the presence of calcium grew faster than those plants that were grown without calcium. This was true in weeks 2 and 3 more so than in week 1.

In order to determine if this continues to be true I will continue to water and measure height.