

Aberdeen Apollo

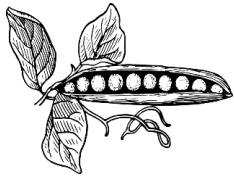
Team # 9326

Aberdeen Elementary

3rd Grade

Aberdeen, Id

Plant The Moon Challenge



How does the percentage of garden soil versus lunar regolith affect the growth of Peas?"

1) Hypothesis:

We think that the more garden soil we add to the lunar simulant, the better the peas will grow.

2) Independent Variables:

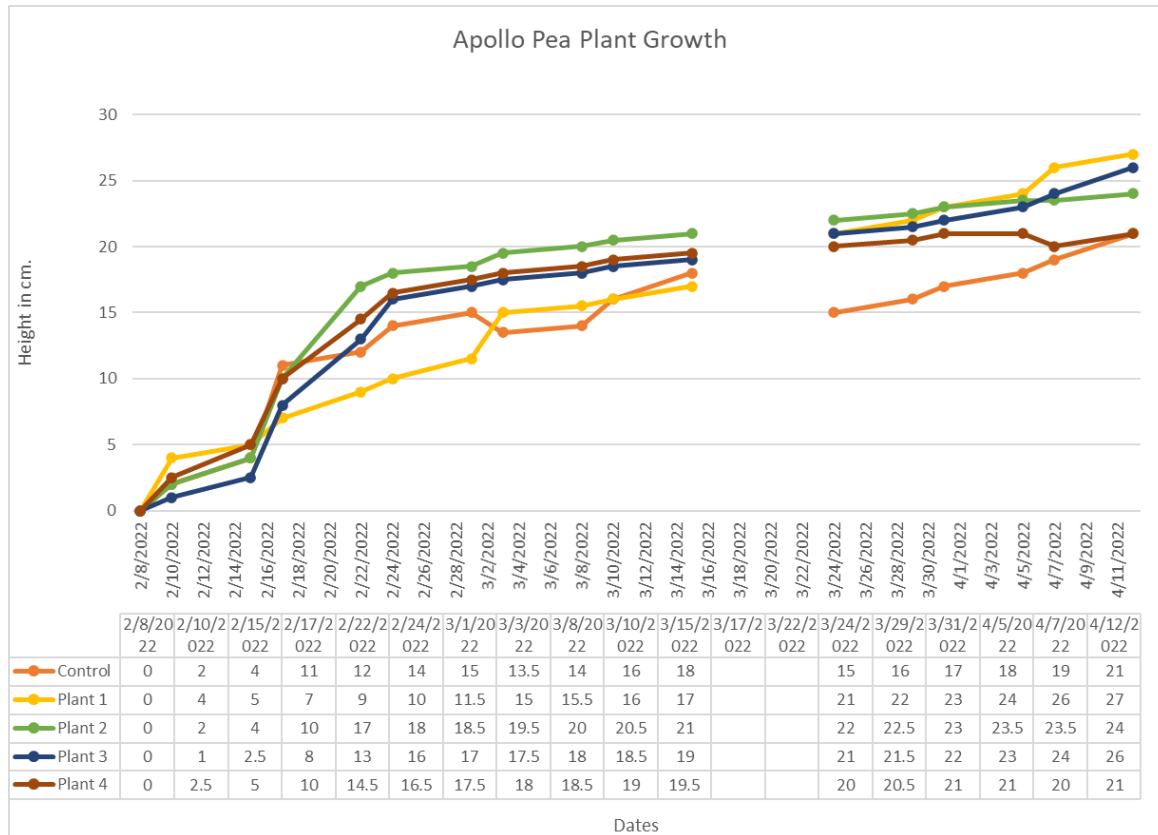
- Plant 1 has 50/50 lunar simulant to garden soil.
- Plant 2 has 60/40 lunar simulant to garden soil.
- Plant 3 has 70/30 lunar simulant to garden soil.
- Plant 4 has 80/20 lunar simulant to garden soil.
- Control Plant has 100% garden soil.

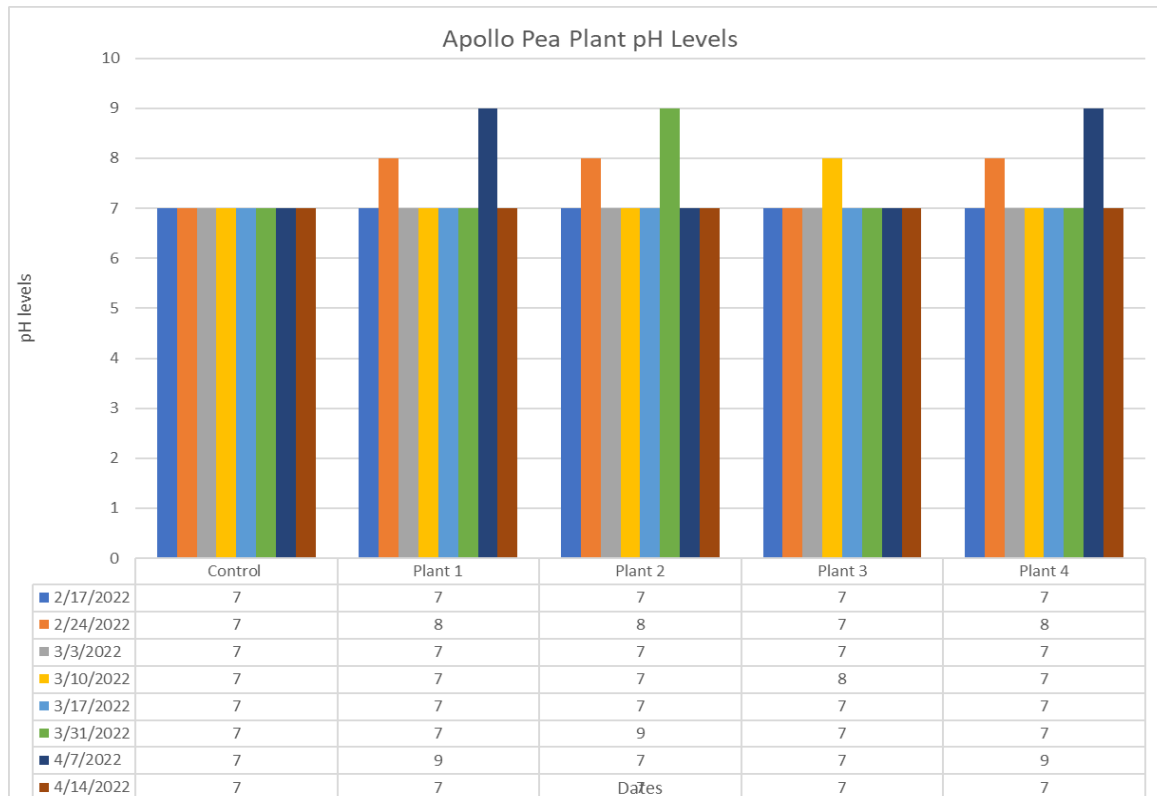
3) Dependent Variables:

- We expect Plant 1 to grow the best out of our 4 plants.
- We expect Plant 2 to grow the 2nd best out of our 4 plants
- We expect Plant 3 not to grow very well.
- We expect Plant 4 to struggle growing.
- We expect our Control Plant to show us how well the pea plants should grow.

4) Measurements:

- We will measure the growth of each plant twice a week.
- We will measure the pH levels once a week after our plants are growing.





5) Controls:

- Our grow light will be kept on a timer for 16 hours of light each day.
- Our plants will be watered 3 times a week with 20 ml of distilled water.
- Our plants are kept in our classroom, so the growing environment is the same all the time.

6) Results:

- I noticed that a little bit of moon dirt is not bad. Plant 1 was really good and grew the best because it had really good soil mixture.
- Our control plant got pinched 2 times and it was good and kept growing because it had the best soil being the control plant.
- Plant 2 grew the 3rd tallest because it had 60/40 ratio. 60% moon dirt and 40% soil. It kept falling down and it wasn't that strong of a plant.
- Plant 4 didn't grow that much because it was in the 80/20 soil mixture.
- So, in conclusion, our pea plants grew the way we expected them to grow in our hypothesis. The control didn't grow the best because someone kept pinching it, but it always got better. All the plants grew

depending on how much garden soil they had in their pots. The more garden soil they had, the better they grew.

We Are Planting the Moon!





