Pscience Lab Procedure

Inquiry Question: Will different seeds change the germination rate?

Hypothesis: Yes, each seed will have a different germination rate.

Materials: Alfalfa, nasturtium, peas, soybean, millet, buckwheat, water, soil, and a pot for each.

Step-by-step: Plant each seed in a pot with water and soil and wait for results.

Data: Calculate the germination rate for each seed.

Conclusion: We have concluded that all plants grow at different rates, because of the heights of the three plants. Next time we could try to vary the factors we used like the liquid, where we planted it, or maybe the source or color of light.

1. Can the same plant be watered with different liquids and still grow the same and be healthy?
2. Which plants would take the longest to die if you stopped watering them, or if you stopped putting them under sunlight or another light source?

Observations

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| --- | --- | --- | --- |
| Days | Observations | Days | Observations |
| One | There is no plant growth, and the plants are still moist |  |  |
| Two | The millet has 2/20 seeds sprouted and the alfalfa has 8/20, but nothing has sprouted in buckwheat |  |  |
| Three | The buckwheat has still not sprouted, but the alfalfa grew bigger and now is 9/20 grown , and the millet is still 2/20 grown |  |  |
| Four | The alfalfa is around 18/20 sprouted. The millet is 6/20 sprouted, and the buckwheat is 2/20 sprouted. |  |  |
| Seven | Today we found that all of our alfalfa has sprouted, the millet is 10/20 sprouted, and  the buckwheat is 8/20 sprouted. |  |  |
| Eight | All of our seeds have sprouted, and we have concluded that plants all grow at different rates from other plants. Our buckwheat grew the tallest, our millet grew in the middle of the other two heights, and alfalfa grew the shortest, but there was the most alfalfa. |  |  |
| Nine | Same as day “Eight”, there has not been any growth in our plants |  |  |