

Lab Report Template

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Project 7.3.3 Needs of Seeds

Problem

Does the amount of water affect the germination rate of radishes?

Hypothesis

If radish seeds grow best in saturated soil then there will be a noticeable difference in root growth due to soil drainage because a poorly drained soil will cause root rot.

Materials

- 100 seeds
- Grow light
- Heat mat
- Lab Quest
- Soil Moisture Probe
- pH Probe
- Temperature Probe
- Plug Tray Flats
- Soil
- Ruler
- Graduated Cylinder
- Water
- Tape
- Marker
- Beaker

Procedures

1. Gather all materials.
2. Prepare clear cups with soil.
3. Label 4 cups with 5mL.
4. Plant 5 seeds on the outside of each cup (for later root growth visibility).
5. Measure 5 mL of water using the graduated cylinder.
6. Apply 5mL of water to the flat.
7. Repeat step 3-6 with 10mL, 25mL, 50mL, and 100mL.
8. Place all flats onto heat mat with equal amounts with light.
9. Measure soil moisture, soil pH, soil temperature, root growth and shoot growth every day for 15 days.
10. At Day 15, clean up.

Data Collection

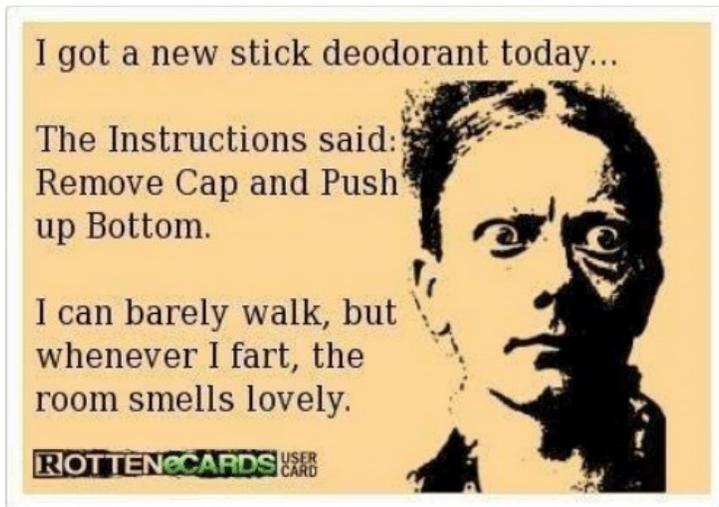
Day	pH Level	Soil Moisture (%)	Soil Temperature (°F)	Root height (cm)	Shoot height (cm)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
AVG					

Analysis of Results

Explain the results and data collected. Be descriptive and complete in your discussion.

Conclusions

Based on the results, what inferences can you make? Describe how your predictions were proven or disproven. What were possible sources of error? What questions arise based on your results?



Wait, what?