

Lab Report Template

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7.3.3

Problem

At what temperature will honey locust seeds germinate best?

Hypothesis

We predict that a warm temperature will be the best germination requirement for honey locust seeds

Materials

- Honey Locust Seeds
- Plate Warmer/Heating Pad
- Cooler/Refrigerator

Procedures

1. Place 20 seeds on a plate warmer or heating pad around 80 degrees for 2 hours. Then plant in moist potting soil $\frac{1}{2}$ inch deep. Make sure soil stays well watered. Record data and observations for 2 weeks.
2. Place 20 seeds in a refrigerator around 35-40 degrees for 2 hours. Then plant in moist potting soil $\frac{1}{2}$ inch deep. Make sure soil stays well watered. Record data and observations for 2 weeks.
3. Place 20 seeds in a windowsill or in an area around 60 degrees for 2 hours. Then plant in moist potting soil $\frac{1}{2}$ inch deep. Make sure soil stays well watered. Record data and observation for 2 weeks.

Data Collection

Observations	Heated (80F)	Frozen (30-40F)	Window (60F)

Initial			
Day 3			
Day 5			
Day 8			
Day 11			
Day 14			

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?