

Seed Germination Lab

Purpose/Problem: The purpose of this lab is to see what effect temperature has on radish seed growth

Background Info: Define the following terms and discuss the growing process:

- Seed, Germinate, Root, Stem, Leaf, Flower, Abiotic, Biotic

Hypothesis: Use and **IF/Then** statement to discuss what happens when seeds are placed in different temperatures

Experiment:

- Equipment/Materials: petri dish, Radish seeds, paper towel, water dropper, 2 beakers, scissors, sharpie, tape
- **Procedure**
 - Cut 2 Paper towels to fit in the bottom of a petri dish
 - Cut 1 paper towel to fit over the seeds
 - Soak 15 seeds for 10 minutes in tap water
 - Place the seeds on the paper towel evenly separated
 - Water the towel enough to moisten. **NO STANDING WATER!!**
 - Cover the seeds lightly with a moist paper towel
 - Place cover on a petri dish
 - Place in designated container

Data: Using a whole sheet of paper create a chart similar to the one below but with enough rows for 7 days of data.

Day	Quantitative Measurement 10 Degree C	Quantitative Measurement 25 Degree C	Quantitative Measurement 40 Degree C	Qualitative Measurement of seeds in general
Tuesday				
Wednesday				

Conclusions: Using the three part conclusion, accept or reject hypothesis, discuss your data, what you learned in the lab and what types of error occurred. Conclusion must be a minimum of 6 sentences.