

Student Name:

Sample Lab Report

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- I. **Purpose** – In the Sunflower lab we will determine if the length of time a sunflower seed is soaked in water before planting has an effect on the speed that it will germinate. The control in this lab is a sunflower seed that is not soaked in a damp paper towel before planting and the variable is the length of time the seeds are soaked in water before planting. I think that the longer a seed soaks in a damp paper towel before being planted the quicker it will germinate.
- II. **Materials-**
- 9 sunflower seeds
 - 9 plastic cups
 - 6 damp paper towels
 - Ruler
 - Permanent marker
 - Dirt
 - Water
 - Measuring cup
 - Tablespoon
- III. **Procedure** – (Note the set-up for the lab will take 3 days).
- Day 1 - Wrap 3 sunflower seeds individually in damp paper towels.
- Day 2 – Wrap 3 different sunflower seeds individually in damp paper towels.
- Day 3 – Plants will be planted today follow the procedure below:
1. Place 2 cups of dirt in each of the 9 plastic cups.
 2. Label each cup 1-9.
 3. In cups 1, 2, and 3 place one sunflower seed that has not been in a damp paper towel.
 4. In cups 4, 5, and 6 place one sunflower seed that was placed in the damp cloth on day 1 (note these will be referred to as seeds that have soaked for 2 days)
 5. In cups 7, 8, and 9 place one sunflower seed that was placed in the damp cloth on day 2 (note these will be referred to as seeds that have soaked for 1 day).
 6. Add 1 Tablespoon of water to each cup.
- Day 4-10 –
1. Water with 1 tablespoon of water at 9 am daily.
 2. Record at 9 am, in the data table below, any observations about the seeds.
 3. Place an "X" in the box once the seed has germinated.

	Cup 1	Cup 2	Cup 3	Cup 4	Cup 5	Cup 6	Cup 7	Cup 8	Cup 9
1									
2									
3									
4									
5									
6									
7									

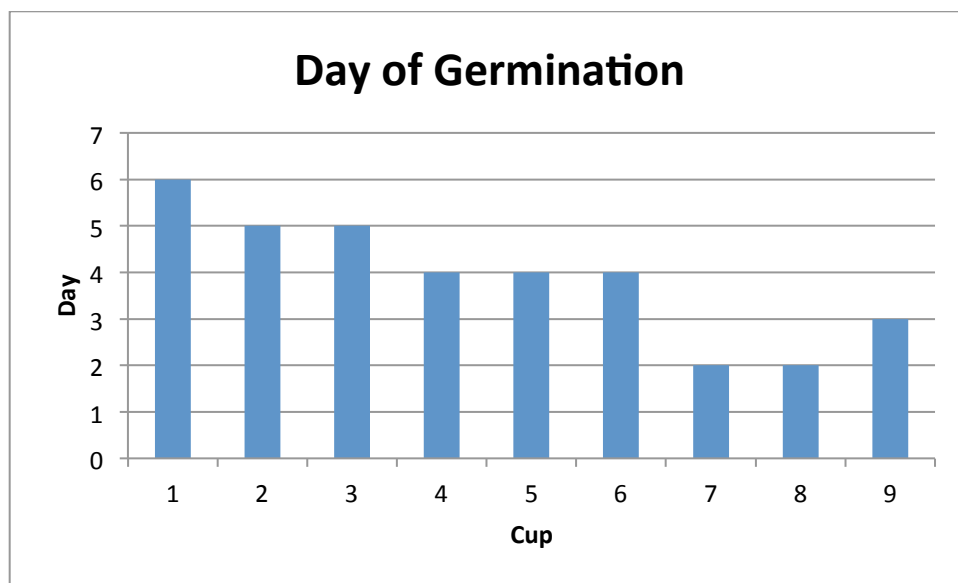
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IV. Results –

Germination Time of Sunflower Seeds

	Cup 1	Cup 2	Cup 3	Cup 4	Cup 5	Cup 6	Cup 7	Cup 8	Cup 9
1									
2							X	X	
3				Dirt looked disturbed			X	X	X
4	Dirt looked disturbed			X	X	X	X	X	X
5		X	X	X	X	X	X	X	X
6	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X



V. Conclusion -

The longer a sunflower seed is soaked in a damp paper towel the quicker it will germinate once planted. In the experiment sunflower seeds that were soaked in a damp paper towel for two days germinated either two or three days after being planted in dirt. The sunflower seeds that were not soaked in a damp paper towel did not germinate until they were planted for either five or six days.