

Seed Scarification Experiment

Name: _____

1. **Question:** What is the best scarification method for morning glory seed germination?

2. **Research:**

- Morning glory seeds have a hard seed coat.
- Morning glory seeds germinate in about 7 days.
- Seeds must have water to germinate.

3. **Hypothesis:**

I think morning glory seeds will germinate best with (circle one):

Control

Sandpaper

Percussion

Hot water

Vinegar

4. **Experiment:** Describe how you set up the experiment.

5. **Collect Data:** Record the number of seeds that germinate.

Number of Seeds Germinated						
Date	Days	Control	Sandpaper	Percussion	Hot Water	Vinegar
	1					
	2					
	3					
	4					
	5					
	6					
	7					
	8					
	9					
	10					
	11					
	12					
	13					
	14					
	Total					



Write down any observations about your seeds:

6. **Explain Data:** Create a bar graph that shows the total germination for each treatment.

Total # of seeds germinated	10					
	9					
	8					
	7					
	6					
	5					
	4					
	3					
	2					
	1					
	0					
	Control	Sandpaper	Percussion	Hot Water	Vinegar	

Treatment

Does your data support your hypothesis? Why or why not?

7. **Ask New Questions:** What new questions do you have about seed germination?

