



Testing the Effect of Different Types of Water on Plant Growth



QUESTION

How do different types of water affect plant growth?



HYPOTHESIS

If I water plants with different types of water, then _____

because _____



MATERIALS

- 4 small pots or cups (with drainage holes)
- 4 fast-growing seeds or seedlings (same type)
- Potting soil
- Tap water
- Filtered water
- Distilled water
- Salt water (1 tsp salt in 1 cup tap water)
- Measuring cup
- Watering can or cup
- Ruler
- Labels or marker
- Notebook or lab sheet



EXPERIMENT OVERVIEW

You will grow the same type of plant in four pots. Each plant will be watered with a different type of water. You will keep all other conditions the same and compare the growth.



PROCEDURE

1. Label each pot: Tap Water, Filtered Water, Distilled Water, Salt Water.
2. Plant the same type of seed or seedling in each pot with potting soil.
3. Place all pots in the same location with the same sunlight and temperature.
4. Water each pot with $\frac{1}{2}$ cup of its assigned water type.
 - Pot 1 – Tap Water
 - Pot 2 – Filtered Water
 - Pot 3 – Distilled Water
 - Pot 4 – Salt Water
5. Water each plant with the same amount ($\frac{1}{2}$ cup) every day.
6. Observe and record the height of each plant daily for 7–14 days.
7. Keep all other conditions the same.

DATA TABLE

Day	Plant Height (cm)				Observations (leaf color, wilting, etc.)
	Tap Water (cm)	Filtered Water (cm)	Distilled Water (cm)	Salt Water (cm)	
Day 1					
Day 2					
Day 3					
Day 5					
Day 6					
Day 7					
Day 14					

RESULTS

What did you observe?

Which type of water worked best? Why?



CONCLUSION

My hypothesis was (circle one): Supported / Not Supported

What did you learn from this experiment?



THINK FURTHER

What other types of water or liquids could you test?
