



HOMESCHOOL SCIENCE EXPERIMENT

Observing the Effect of Aspirin on Plant Growth

Name: _____
Date: _____
Experiment #: _____

Aspirin contains a compound called salicylic acid. Plants also make salicylic acid naturally, which can help them respond to stress and support growth. In this experiment, you will observe how aspirin affects plant growth.



QUESTION

How does aspirin affect the growth of plants?



HYPOTHESIS

If plants are given aspirin, then _____

(Write your prediction.)



MATERIALS

- 2–3 aspirin tablets (regular, uncoated)
- 2 identical small pots or containers
- Potting soil
- 2 fast-growing seeds or seedlings (e.g., bean, radish, or sunflower)
- Water
- Measuring cup or graduated cylinder
- Stirring spoon
- Ruler
- Label or tape and marker



PROCEDURE

1. Label one pot "Control" and the other "Aspirin".
2. Plant the same type of seed (or seedling) in each pot.
3. Place both pots in the same location with the same amount of light.
4. Water both plants with the same amount of plain water.
5. Make an aspirin solution: Crush 1 aspirin tablet and dissolve it in 1 liter (4 cups) of water. Stir until fully dissolved.
6. Water the "Aspirin" plant with the aspirin solution. Water the "Control" plant with plain water.
7. Water both plants every 2–3 days with the same amount of their respective solutions.
8. Observe and record the growth of both plants for 14 days.

DATA TABLE — Record your observations

Day	Control (Plain Water)		Aspirin (Aspirin Solution)		Notes / Observations
	Plant Height (cm)	Number of Leaves	Plant Height (cm)	Number of Leaves	
Day 0 (Start)					
Day 2					
Day 4					
Day 7					
Day 10					
Day 14					



ANALYSIS & CONCLUSION

1. What differences did you observe between the control plant and the aspirin plant? _____
2. Which plant grew taller? _____
3. Which plant had more leaves? _____
4. What do you think aspirin did to affect the plant's growth? _____
5. If you repeated this experiment, what would you do the same? What would you do differently? _____