



SCIENCE EXPERIMENT



Observing the Effect of Pollution on Plant Growth

Name: _____ Date: _____ Grade: _____



QUESTION

How does pollution affect plant growth?



HYPOTHESIS

I think that _____

because _____



MATERIALS

- 3 small pots or containers
- Potting soil
- 3 fast-growing seeds (e.g., bean, radish, or sunflower)
- Water (clean)
- Pollutant for Test 1 (e.g., soapy water or detergent solution)
- Pollutant for Test 2 (e.g., salty water)
- Measuring cup or spoon
- Ruler
- Labels or tape
- Notebook for observations



PROCEDURE

- Label the three pots as: Control (Clean Water), Test 1 (Pollutant 1), and Test 2 (Pollutant 2).
- Fill each pot with the same amount of potting soil.
- Plant the same number of seeds in each pot at the same depth.
- Place all pots in the same location with equal sunlight.
- Water each pot with the same amount (e.g., 100 mL) of the assigned liquid:
 - Control: clean water
 - Test 1: Pollutant 1 solution
 - Test 2: Pollutant 2 solution
- Water each pot daily with the same amount of the assigned liquid.
- Observe and measure the plants for 14 days.
- Record your observations and measurements in the data table.

EXPERIMENT SETUP



Control
(Clean Water)



Test 1
(Pollutant 1)



Test 2
(Pollutant 2)

Keep all other conditions the same for all pots:



Sunlight



Temperature



Air

DATA TABLE – Record your observations and measurements

Day	Control (Clean Water) Height (cm)	Test 1 (Pollutant 1) Height (cm)	Test 2 (Pollutant 2) Height (cm)	Control Appearance / Notes	Test 1 Appearance / Notes	Test 2 Appearance / Notes
0 (Planted)						
3						
10						
14						



ANALYSIS – Answer the questions below

- Which plant grew the best? _____
- Which plant grew the least? _____
- How did the pollutants affect plant growth and appearance?

- What did you learn from this experiment?



CONCLUSION

My conclusion is:



TIP: Be fair and consistent. The more careful your experiment, the more reliable your results!