PLANT GROWTH

In this experiment, we'll test how different amounts of light, water, and temperature affect the growth of plants. By observing and measuring the plants over a few weeks, we'll find the best growing conditions!

SUPPLIES
6 small potted plants (all the same type)
Potting soil
Ruler (for plant height)
Watering can
Thermometer
Grow lights or sunlight
Journal for observations
Labels plants
Camera (optional)

INSTRUCTIONS:

STEP 1: Divide the six plants into three groups of two. Label each plant with a number and note the environmental condition it will receive.

Group 1: Light Experiment

One plant will receive full sunlight, and the other will be kept in the dark.

Group 2: Water Experiment

One plant will be watered daily with a small, consistent amount, and the other will receive water once a week.

Group 3: Temperature Experiment

One plant will be kept in a warm area (room temperature), and the other in a cooler area (such as near a window with cool air or in a cooler part of the house).

STEP 2: Measure and record plant height every two days using a ruler. Note any changes in color, leaves, or overall plant health in a journal. Water the plants as per their assigned condition (daily or weekly) and ensure temperature and light conditions are maintained.

STEP 3: Create a simple chart for each group to track plant growth, noting the plant's height, the number of leaves, and any visible signs of health or stress over a period of 2-3 weeks. For each factor (light, water, and temperature), students should record their observations.

STEP 4: After the experimental period, ask students to analyze which plants grew the best under which conditions.

JOURNAL OBSERVATIONS

PLANT #	CONDITION	DAY 1 HEIGHT	DAY 2 HEIGHT	DAY 3 HEIGHT	NOTES: COLOR, LEAVES ETC
1	FULL SUN				
2	DARK ROOM				
3	DAILY WATER				
4	WEEKLY WATER				
5	WARM AREA				
6	COOL AREA				

Which plants grew the most? _____

What differences did you notice in color, leaf size, or health? _____

How did the conditions of light, water, and temperature affect the plants? _____

Conclusion:

Was your hypothesis correct? Why or why not? _____

Which factor seemed to help the plants grow best? _____