

Observing the Effect of Light on Plant Growth



Name: _____

Date: _____



Purpose: To observe and compare how different light conditions affect plant growth.

MATERIALS

- 3 small plants or seeds (same type)
- 3 identical pots or cups
- Potting soil
- Water
- Ruler
- Labels or masking tape
- Notebook or lab sheet
- Light source (sunlight or grow light)
- Dark place (closet or box)

PROCEDURE

1. Plant the same type of seed (or use the same small plant) in each pot with the same amount of soil.
2. Label the pots:
 - Pot 1 – Full Light (place in bright light)
 - Pot 2 – Low Light (place in a dim area)
 - Pot 3 – No Light (place in a dark place)
3. Water each plant with the same amount of water.
4. Keep all other conditions the same.
5. Observe your plants for 1–2 weeks.
Measure and record their growth every 2–3 days.

OBSERVATIONS

Date	Pot 1 – Full Light (bright light)	Pot 2 – Low Light (dim light)	Pot 3 – No Light (dark)
	Height (cm): _____ Observations (color, leaf size, stem strength, etc.): _____	Height (cm): _____ Observations (color, leaf size, stem strength, etc.): _____	Height (cm): _____ Observations (color, leaf size, stem strength, etc.): _____

QUESTIONS

1. Which plant grew the best? _____
2. How did the plants in low light compare to the plant in full light? _____
3. What happened to the plant that received no light? _____
4. What does this experiment show about the importance of light for plants? _____

CONCLUSION

Write 2–3 sentences summarizing what you learned from this experiment.



TIP: Take pictures of your plants every few days to include with your observations!