

Lab Logic Answer Key

Correct Order:

1. D. The experiment question is written.
2. B. Two identical seedlings are planted in separate pots with the same soil and water.
3. C. One plant is placed in full sunlight while the other is placed in a dark closet.
4. E. Both plants are watered the same amount every day.
5. A. The height of both plants is measured and recorded after ten days.

Why Order Matters:

1. The question must come first because it explains what the experiment is testing.
2. The light conditions must be set before measuring so the plants have time to respond to the light.
3. Measuring too early would not show real growth results.

Order Breakdown Example Response: If the watering step were skipped, the plants could die, making the experiment results unreliable.

Teacher's Guide

- Review the meaning of **procedure**, **variable**, and **controlled conditions** before starting.
- For support, allow students to physically reorder printed step cards.
- For advanced learners, require students to identify the independent and dependent variables.
- Increase engagement by letting students redesign the procedure for a different plant test.
- Extension idea: have students write their own scrambled experiment for a partner to reorder.