

Light Changes Plants

Find causes, effects, and a science prediction.

2.5.B “investigate and predict cause-and-effect relationships in science;”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each cause or change in the test. Circle the effect that happened, then number each cause-and-effect pair.

Bean Plant Test

- ① Ms. Lee’s class placed two same-size bean plants near a sunny window. Both plants got the same soil and one cup of water each day. One plant was covered with a dark box for three days, but air could still move around it.
- ② At the end, the plant in sunlight had green leaves and stood tall. The covered plant had pale leaves and drooped. The class changed only the light. This helped them investigate what happens when a plant does not get light.
- ③ Next, the class will leave both plants by the window and keep giving equal water. They predict that the pale plant may become greener and stand up as it gets light. They will watch the plants for several more days.

2 ANSWER WITH EVIDENCE Use the passage

1 What caused the covered plant to have pale leaves and droop?

2 What two things did the class keep the same to make the test fair?

3 What do the students predict will happen to the pale plant after it is placed by the window?

3 YOUR TURN Your own words

Plan a fair test with two same-size ice cubes, one in sunlight and one in shade. Write two sentences that tell what you will keep the same and predict which ice cube will melt faster and why.

PART 1 • READ AND MARK

Underline each cause or change in the test. Circle the effect that happened, then number each cause-and-effect pair. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What caused the covered plant to have pale leaves and droop?	It did not get light because it was covered by the dark box.
2	What two things did the class keep the same to make the test fair?	They kept the soil the same and gave each plant one cup of water each day.
3	What do the students predict will happen to the pale plant after it is placed by the window?	They predict it may become greener and stand up as it gets light.

PART 3 • YOUR TURN (SAMPLE ANSWER)

I will put two same-size ice cubes on the same kind of plates and check them after the same amount of time. I predict the ice cube in sunlight will melt faster because sunlight warms it.

Accept answers that identify lack of light as the cause and pale, drooping leaves as effects. For Your Turn, accept any fair ice-cube test that keeps key conditions the same and gives a reasonable prediction with a cause.