The Light Test

Change one thing to test how a plant grows

2.5 "Plan and carry out an investigation, using one variable at a time, to determine how each variable affects plant growth."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline the two places Mia put the pots, circle two things she kept the same, and draw a box around how she checked growth.

Mia's Bean Plants

1. Mia wondered if light could change how a bean plant grows. She put one bean seed in each of two pots. Both seeds were the same kind. She used the same size pot and the same soil for each seed.

2. One pot sat by a sunny window. The other pot sat in a dark closet. Mia gave each pot one small cup of water each day. She did not move either pot.

3. After three weeks, Mia counted the leaves on each plant to check growth. The plant by the window had six leaves. The plant in the closet had two leaves. She wrote both counts in her notebook to compare the plants.

2 ANSWER WITH EVIDENCE

Use the passage

1. What did Mia change between the two pots? Name one thing she kept the same.

2. How did Mia check growth so she could compare the plants?

3. What did Mia's leaf counts show about light in this test? Use both counts.

3 YOUR TURN

Your own words

Plan a new test to find out if the amount of water changes how many leaves a bean plant grows. In three sentences, tell what you will change, what you will keep the same, and when and how you will check growth.

ANSWER KEY

The Light Test

GRADE 2 · 2.5

PART 1 · READ AND MARK

Underline the two places Mia put the pots, circle two things she kept the same, and draw a box around how she checked growth. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What did Mia change between the two pots? Name one thing she kept the same.	**She changed the amount of light. She kept the kind of seed, pot size, soil, or amount of water the same.**
2	How did Mia check growth so she could compare the plants?	**After three weeks, she counted the leaves on each plant.**
3	What did Mia's leaf counts show about light in this test? Use both counts.	**The plant with more light had six leaves, while the plant with less light had two. In this test, the plant with more light grew more leaves.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

I will give one pot one tablespoon of water each day and the other two tablespoons each day. Both pots will have the same kind of seed, soil, pot size, and light. After three weeks, I will count the leaves on each plant.

Accept any two conditions that differ only in the amount of water. The plan should keep other conditions the same and check growth in the same way at the same time for both plants.