

Seed Scoop Solve

Read how observations can lead to a testable question and a new tool.

2.1.a “asking questions and defining problems ask questions that can be investigated make predictions based on observations and prior experiences identify a simple problem that can be solved through the development of a new tool or improved object”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the question Maya asked, circle her prediction, and number the simple problem 1 and the new tool 2. These marks show how an observation can lead to a solution.

Maya's Seed Scoop

- ① During garden time, Maya used a small cup to move seeds into pots. Some seeds rolled over the cup's smooth rim and fell onto the table. Maya noticed that it took a long time to pick up the fallen seeds.
- ② She asked, "How can I move seeds into pots without dropping so many?" Maya remembered that a shovel has raised sides. She predicted that a scoop with raised sides would keep more seeds inside as she carried them.
- ③ First, Maya needed to solve a simple problem: the cup let seeds roll out. She could make a new seed scoop from a paper cup by cutting one side into a handle and leaving tall sides around the seeds. Then she could test it.

2 ANSWER WITH EVIDENCE Use the passage

1 What question did Maya ask that she could investigate?

2 What did Maya predict raised sides on a scoop would do?

3 What simple problem was Maya trying to solve?

3 YOUR TURN Your own words

Think of a small problem with an object at home or school. Write four sentences: tell an observation, ask a question you can test, make a prediction, and name a new tool or change that could solve the problem.

PART 1 • READ AND MARK

Underline the question Maya asked, circle her prediction, and number the simple problem 1 and the new tool 2. These marks show how an observation can lead to a solution. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What question did Maya ask that she could investigate?	How can I move seeds into pots without dropping so many?
2	What did Maya predict raised sides on a scoop would do?	She predicted that raised sides would keep more seeds inside the scoop as she carried them.
3	What simple problem was Maya trying to solve?	The cup let seeds roll out and fall onto the table.

PART 3 • YOUR TURN (SAMPLE ANSWER)

I noticed that my pencils roll off my desk. How can I keep pencils from rolling onto the floor? I predict that a pencil tray with low sides will hold the pencils still. I could make a tray from a small box.

Accept the passage-based answers or equivalent wording. For Your Turn, accept varied problems and tools when the student includes an observation, a testable question, a prediction, and a possible tool or object improvement.