

Cover Challenge

Use criteria and test results to judge two garden covers.

3.2.D "evaluate a design or object using criteria."

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline the four criteria in paragraph 1, then circle the test results that help you judge Cover A or Cover B.

A Cover for Young Plants

- ① The school garden club needs a cover for a tray of young plants during light rain. A good cover must keep rain off the plants, let sunlight reach them, stay on the tray in wind, and use no more than three sheets of clear plastic. These are criteria. Criteria are rules used to judge whether a design does its job.
- ② Mia made Cover A with one flat sheet of clear plastic taped across the tray. It used one sheet and let in sunlight. During a spray-bottle rain test, water rolled to the middle and dripped onto two plants. A fan also lifted one taped edge. The cover did not tear, and it still fit across the tray.
- ③ Jon made Cover B by folding two clear plastic sheets into a sloped roof and clipping it to the tray. It let in sunlight and used only two sheets. In the rain test, all the water ran off the sides, and the plants stayed dry. The fan did not move it. Its clips stayed attached to the tray.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 What are the four criteria for a good plant cover?

2 Which two criteria does Cover A meet? Use details from the passage.

3 Does Cover B meet the wind criterion? What detail proves your answer?

4 Which cover is the better design overall? Give two test results to support your judgment.

3 YOUR TURN _____ Your own words

Invent a design for holding a library book during a car ride. Write four sentences: name two criteria, explain one feature of your design, and judge whether it meets each criterion.

PART 1 • READ AND MARK

Underline the four criteria in paragraph 1, then circle the test results that help you judge Cover A or Cover B. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	What are the four criteria for a good plant cover?	Keep rain off the plants, let sunlight reach them, stay on the tray in wind, and use no more than three sheets of clear plastic.
2	Which two criteria does Cover A meet? Use details from the passage.	Cover A meets the material and sunlight criteria. It uses one sheet and lets in sunlight.
3	Does Cover B meet the wind criterion? What detail proves your answer?	Yes. The fan did not move Cover B, and its clips stayed attached to the tray.
4	Which cover is the better design overall? Give two test results to support your judgment.	Cover B is better overall. It kept the plants dry, and the fan did not move it. It also used only two sheets and let in sunlight.

PART 3 • YOUR TURN (SAMPLE ANSWER)

My book holder must keep a book from sliding and use only recycled cardboard. It has a tall back and two side walls. The side walls keep the book from sliding, so it meets the first criterion. It is made from one recycled cereal box, so it meets the second criterion.

Accept equivalent wording for the four criteria and evidence from the stated tests. For the open task, accept any sensible design that names two criteria and uses design details to judge both.