Sunlight Cooks

Track sequence, comparison, and cause-and-effect links in an informational text.

4.RI.3.C "Describe the relationships between a series of historical events, scientific concepts, or steps in technical procedures using words that pertain to comparison, sequence, or cause and effect."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline words or phrases that connect ideas. Label each one sequence, comparison, or cause and effect.

A Box That Cooks

1. Solar ovens use sunlight to warm food. Unlike a kitchen oven, a solar oven does not burn fuel or use electricity. Instead, shiny foil reflects sunlight into a dark box. The dark surface absorbs more heat than a light surface. A clear cover traps warm air inside, much like the windows of a parked car on a sunny day.

2. First, a cook places food in a dark pot or pan and sets it inside the box. Next, the cook aims the foil toward the sun. As sunlight enters the box, the dark pan gets warmer. Because the cover holds heat in, the food warms slowly. The cook turns the oven during the day so it keeps facing the sun.

3. On a clear day, the oven can become hot enough to cook some foods. However, clouds block part of the sunlight, so the oven heats less. Wind can also carry heat away when the cover is opened. For this reason, solar ovens usually cook food more slowly than kitchen ovens. Even so, they can be useful where fuel or electricity is hard to find.

2 ANSWER WITH EVIDENCE

Use the passage

1. How is a solar oven different from a kitchen oven? Include the detail that explains how a solar oven gets heat.

2. Number these events from 1 to 3: the dark pan gets warmer, the cook aims the foil toward the sun, the cook puts food in a dark pan inside the box.

3. What happens because the cover holds heat inside the box?

4. Compare how a solar oven heats on a clear day and on a cloudy day.

3 YOUR TURN

Your own words

Choose a device that uses sunlight, such as a solar calculator or a solar garden light. Write three sentences explaining how it works. Include a sequence word, a cause-and-effect phrase, and a comparison word.

ANSWER KEY

Sunlight Cooks

GRADE 4 · 4.RI.3.C

PART 1 · READ AND MARK

Underline words or phrases that connect ideas. Label each one sequence, comparison, or cause and effect. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	How is a solar oven different from a kitchen oven? Include the detail that explains how a solar oven gets heat.	**A solar oven uses sunlight, while a kitchen oven burns fuel or uses electricity. Foil reflects sunlight into the box.**
2	Number these events from 1 to 3: the dark pan gets warmer, the cook aims the foil toward the sun, the cook puts food in a dark pan inside the box.	**1. The cook puts food in the dark pan inside the box. 2. The cook aims the foil toward the sun. 3. The dark pan gets warmer.**
3	What happens because the cover holds heat inside the box?	**The food warms slowly.**
4	Compare how a solar oven heats on a clear day and on a cloudy day.	**On a clear day, the oven can become hot enough to cook some foods. On a cloudy day, clouds block sunlight, so the oven heats less.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

First, a solar garden light's panel collects sunlight during the day. Because the panel changes sunlight into electricity, it charges a battery. At night, the battery powers a small lamp, which uses less electricity than a large porch light.

Accept accurate paraphrases of the passage that clearly state the relationship between ideas or events. For Part 3, accept any accurate three-sentence explanation that includes all three types of connecting language.