# Open Up Research

Ask questions that open a path for research.

**4.T.RA.1.a** "Generate questions about a self-selected topic of interest to be researched, asking open-ended questions to deepen and extend understanding of the topic and related ideas and information. (I)"

NAME _____ DATE _____

## 1 READ AND MARK

Read it twice

**YOUR JOB** Underline each research question in the passage that needs more than a yes-or-no answer. Leave any yes-or-no question unmarked, then number the underlined questions in order to notice how they open up research.

### Jordan Researches City Gardens

1. Jordan chooses city gardens as a research topic after seeing tomatoes grow beside an apartment building. Jordan first asks, "Do city gardens help people?" This question could be answered with yes or no, and it does not name which people or kinds of help. Jordan looks at photos of gardens, notices neighbors working together, and decides to ask questions that invite fuller answers.

2. Jordan writes, "How do city gardens change the food choices of families who use them?" The question names food choices and families, so a researcher can seek interviews, menus, and garden records. Jordan also asks, "What makes some neighborhood gardens last for many years?" This question reaches beyond plants. It could lead to research about water, land rules, money, and community teamwork.

3. As Jordan learns more, Jordan keeps a list of new ideas. A report about a garden's rain barrel leads to a question about saving water. A map showing gardens in different neighborhoods leads to a question about fair access to fresh food. Jordan understands that strong research questions can grow from details and connect one topic to related ideas.

## 2 ANSWER WITH EVIDENCE

Use the passage

1. Which question in paragraph 1 can be answered with yes or no?

2. What two details does Jordan name in the first question in paragraph 2?

3. Name two sources Jordan could use to answer the first question in paragraph 2.

4. What related idea does the rain barrel detail lead Jordan to research?

## 3 YOUR TURN

Your own words

Choose a topic you want to research. Write three open-ended questions: one about your main topic, one focused on a specific group or detail, and one that connects your topic to a related idea.

ANSWER KEY

# Open Up Research

GRADE 4 · 4.T.RA.1.a

## PART 1 · READ AND MARK

Underline each research question in the passage that needs more than a yes-or-no answer. Leave any yes-or-no question unmarked, then number the underlined questions in order to notice how they open up research. Accept any marking that follows this job and points at the right text.

## PART 2 · ANSWERS

| # | QUESTION | ANSWER |
|---|---|---|
| 1 | Which question in paragraph 1 can be answered with yes or no? | **"Do city gardens help people?"** |
| 2 | What two details does Jordan name in the first question in paragraph 2? | **Food choices and families who use city gardens.** |
| 3 | Name two sources Jordan could use to answer the first question in paragraph 2. | **Any two: interviews, menus, or garden records.** |
| 4 | What related idea does the rain barrel detail lead Jordan to research? | **Saving water.** |

## PART 3 · YOUR TURN (SAMPLE ANSWER)

Topic: Monarch butterflies 1. How do monarch butterflies use changes in daylight to begin migration? 2. How do school gardens with milkweed affect monarch caterpillars in a neighborhood? 3. How could protecting monarch habitat help other pollinators?

Accept equivalent wording for passage-based answers. For the open task, accept three questions that cannot be answered with yes or no and include the main topic, a specific group or detail, and a related idea.