Rooftop Evidence Map

Trace how reasons and evidence support an author's points.

CCSS.ELA-Literacy.W.5.9b "Apply grade 5 Reading standards to informational texts (e.g., "Explain how an author uses reasons and evidence to support particular points in a text, identifying which reasons and evidence support which point[s]"")."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline each point the author makes about green roofs. Circle each reason or piece of evidence that supports a point, then write the number of the matching underlined point beside it.

Gardens Above the Street

(1) Many cities should add gardens to the tops of some buildings, often called green roofs. These roofs are covered with soil and plants instead of bare materials. Green roofs can make crowded neighborhoods cooler. On hot days, dark roofs absorb sunlight and warm the air nearby. Plants shade the roof and release water vapor, which helps lower the roof's surface temperature.

(2) Green roofs also help cities handle heavy rain. A bare roof sends rain quickly into gutters and storm drains. During a storm, too much fast-moving water can flood streets or overflow pipes. Soil on a green roof holds some rainwater, and plant roots slow the water's movement. In one study of green roofs in Toronto, researchers found that the roofs kept about half of yearly rainfall from running off.

(3) Green roofs cost more to install than plain roofs, so they are not the best choice for every building. Still, city leaders should consider them when a roof needs replacement, especially on schools, libraries, and apartment buildings. A cooler roof may reduce air-conditioning use, and slower runoff may ease pressure on storm drains. These benefits give cities two practical reasons to include green roofs in plans.

2 ANSWER WITH EVIDENCE

Use the passage

1. What point does the author make about green roofs in paragraph 1? Give two reasons or details that support this point.

2. What point does the author make in paragraph 2? Which details explain how green roofs support that point?

3. The Toronto study found that green roofs kept about half of yearly rainfall from running off. Which point does this evidence support, and why?

4. In paragraph 3, what recommendation does the author make even though green roofs cost more? Name the two benefits used to support the recommendation.

3 YOUR TURN

Your own words

Write a three-sentence recommendation to city leaders about whether they should consider green roofs when a roof needs replacement. State your point, use two details from the passage, and explain how each detail supports your point.

ANSWER KEY

Rooftop Evidence Map

GRADE 5 · W.5.9b

PART 1 · READ AND MARK

Underline each point the author makes about green roofs. Circle each reason or piece of evidence that supports a point, then write the number of the matching underlined point beside it. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What point does the author make about green roofs in paragraph 1? Give two reasons or details that support this point.	**Point: Green roofs can make crowded neighborhoods cooler. Support: Plants shade the roof and release water vapor, and dark roofs absorb sunlight and warm nearby air.**
2	What point does the author make in paragraph 2? Which details explain how green roofs support that point?	**Point: Green roofs help cities handle heavy rain. Soil holds some rainwater, and plant roots slow the water's movement.**
3	The Toronto study found that green roofs kept about half of yearly rainfall from running off. Which point does this evidence support, and why?	**It supports the point that green roofs help cities handle heavy rain because it shows that the roofs keep a large amount of rainwater from flowing away.**
4	In paragraph 3, what recommendation does the author make even though green roofs cost more? Name the two benefits used to support the recommendation.	**The author recommends that city leaders consider green roofs when roofs need replacement. The benefits are less air-conditioning use from cooler roofs and less pressure on storm drains from slower runoff.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

City leaders should consider green roofs when roofs need replacement. Plants shade roofs and release water vapor, so they can help cool crowded neighborhoods. Soil and plant roots hold and slow rainwater, which can reduce pressure on storm drains.

Accept equivalent statements of the author's points and accurate reasons or evidence linked to the correct point. For Part 3, look for a clear recommendation, two passage-based details, and an explanation of how each detail supports the recommendation.