

Clues on the Map

Use definitions, analogies, and examples to unlock word meanings.

6.2.B “use context such as definition, analogy, and examples to clarify the meaning of words; and”

NAME _____

DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Underline each vocabulary word whose meaning is explained in the passage. Circle the words or details that clarify it, then write D, A, or E beside each circle for a definition, analogy, or example clue.

A Cooler City Map

- ① On a summer afternoon, a student team mapped temperatures around their city library. They noticed that the dark parking lot felt hotter than the grassy courtyard. Their teacher introduced the word albedo, meaning a surface's ability to reflect sunlight. A pale roof has high albedo because it sends more sunlight back into the air. Dark asphalt has low albedo, so it absorbs more energy. The team recorded each surface's temperature and albedo to learn why nearby places can feel so different.
- ② To cool one walkway, the team studied permeable pavement. This material has small spaces that let rain soak through instead of rushing into a storm drain. Permeable pavement works like a sponge, holding water in its openings for a while. As the water slowly evaporates, it can help cool the surface. The students compared it with solid concrete, which sheds water quickly. The sponge comparison helped them understand that permeable means allowing water to pass through.
- ③ The map also revealed several microclimates, small areas with weather conditions different from those nearby. For example, the shade beneath an oak tree was cooler than the sunny sidewalk. A brick wall facing south stayed warm after sunset, while a fountain's mist cooled the air beside it. These examples showed that a microclimate is a tiny local climate, not the weather of the whole city. The team proposed ways to mitigate, or lessen, heat, including planting trees and using lighter-colored paving.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 Which words in paragraph 1 define albedo? What does albedo mean?

2 How does the sponge analogy clarify the meaning of permeable pavement?

3 Use two examples from paragraph 3 to explain what microclimates are.

4 What phrase defines mitigate, and which action in the passage is an example of mitigating heat?

3 YOUR TURN _____ Your own words

Write exactly three sentences about one improvement for your school or neighborhood. Use one challenging word and clarify its meaning with a definition, an analogy, and examples.

PART 1 • READ AND MARK

Underline each vocabulary word whose meaning is explained in the passage. Circle the words or details that clarify it, then write D, A, or E beside each circle for a definition, analogy, or example clue. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	Which words in paragraph 1 define albedo? What does albedo mean?	"A surface's ability to reflect sunlight." Albedo means how well a surface reflects sunlight.
2	How does the sponge analogy clarify the meaning of permeable pavement?	Like a sponge, permeable pavement has openings that hold water and let it pass through instead of quickly shedding it.
3	Use two examples from paragraph 3 to explain what microclimates are.	The cooler shade beneath the oak tree and the warm brick wall after sunset are examples. They show that microclimates are small nearby areas with different conditions.
4	What phrase defines mitigate, and which action in the passage is an example of mitigating heat?	"Or lessen" defines mitigate. Planting trees or using lighter-colored paving is an example of mitigating heat.

PART 3 • YOUR TURN (SAMPLE ANSWER)

Our garden needs irrigation, a system that brings water to plants. Irrigation is like a careful drinker, giving roots water slowly instead of flooding them. For example, drip tubes can water tomato plants, bean rows, and young flowers.

Accept responses that correctly use context clues from the passage to explain each word. For Part 3, accept any accurate challenging word explained through a definition, analogy, and examples in exactly three sentences.