

Heat Clue Connections

Combine evidence from several sources to explain a pattern.

6.12.F “synthesize information from a variety of sources;”

NAME _____ DATE _____

1 READ AND MARK _____ Read it twice

YOUR JOB Number the three sources in the passage 1, 2, and 3. Underline one detail from each source that helps explain why Brookside may have had more heat-related visits than Lakeview.

Why Was Brookside Hotter?

- ① During a July heat wave, a city science class studied why some neighborhoods felt hotter than others. Their first source was a temperature map made by the local weather office. At 3:00 p.m., the map showed that the Brookside area reached 96°F, while nearby Lakeview reached 89°F. The class noticed that both places were the same distance from the city center. The map gave them a way to compare heat across locations, but it did not show what caused the difference.
- ② For their second source, the class used a tree count from the city parks department. The count listed 18 street trees along Brookside's main roads and 74 along Lakeview's main roads. It also showed that Brookside had several wide parking lots, while Lakeview had more shaded sidewalks. Trees can cool nearby surfaces by blocking sunlight and releasing water vapor. This source did not measure air temperature, yet it gave the class evidence about a possible reason that the two neighborhoods had different afternoon conditions.
- ③ The third source was a clinic report that counted heat-related visits during the same week. Brookside had 27 visits, and Lakeview had 11. The report did not prove that low tree numbers caused every illness, because people's health can be affected by many factors. To explain the pattern, students needed to compare the report with the map and tree count rather than rely on one source alone. The report described visits, not the personal causes of each visit.

2 ANSWER WITH EVIDENCE _____ Use the passage

1 How do the temperature map and tree count work together to suggest why Brookside was hotter than Lakeview?

2 What pattern appears when you compare the temperature map with the clinic report?

3 Use all three sources to write a cautious claim about the connection among heat, shade, and clinic visits in Brookside.

4 A student says, "Brookside had more clinic visits only because it had fewer trees." How do all three sources show that this claim is too certain?

3 YOUR TURN _____ Your own words

Write a two-sentence recommendation for the city using evidence from all three sources. Include one exact detail from the temperature map, tree count, and clinic report, and use cautious words such as may, might, or could.

PART 1 • READ AND MARK

Number the three sources in the passage 1, 2, and 3. Underline one detail from each source that helps explain why Brookside may have had more heat-related visits than Lakeview. Accept any marking that follows this job and points at the right text.

PART 2 • ANSWERS

#	QUESTION	ANSWER
1	How do the temperature map and tree count work together to suggest why Brookside was hotter than Lakeview?	Brookside was 96°F and had only 18 street trees, while Lakeview was 89°F and had 74 trees. The smaller amount of shade in Brookside may be linked to its hotter conditions.
2	What pattern appears when you compare the temperature map with the clinic report?	Brookside had the higher temperature, 96°F, and more heat-related visits, 27. Lakeview was cooler at 89°F and had 11 visits.
3	Use all three sources to write a cautious claim about the connection among heat, shade, and clinic visits in Brookside.	Brookside's higher heat, fewer trees and less shade, and greater number of heat-related visits suggest that limited shade may be linked to hotter conditions and health risks, but the sources do not prove cause.
4	A student says, "Brookside had more clinic visits only because it had fewer trees." How do all three sources show that this claim is too certain?	The map shows Brookside was hotter, and the tree count shows it had fewer trees, but the clinic report says health can be affected by many factors and does not give the cause of each visit.

PART 3 • YOUR TURN (SAMPLE ANSWER)

The city should consider adding shade trees along Brookside's main roads because the weather map showed 96°F there, the tree count found only 18 street trees, and the clinic report listed 27 heat-related visits. More trees may help reduce heat, but other factors can affect health.

Accept recommendations that use accurate evidence from all three sources and make a reasonable, cautious connection among shade, heat, and clinic visits. Students should not claim that fewer trees definitely caused every heat-related visit.