Roof Decision File

Organize evidence, sources, and limits before a school board acts.

12.R.1.B "Gather and organize information from various sources."

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline each claim a board could use, circle the words that name its source, and number each limitation you find. These marks will help you sort evidence from estimates and opinions.

Should Riverton Schools Use Cool Roofs?

1. Riverton is considering pale cool roofs on three older school buildings. To prepare, the district facilities office gathered a 2024 roofing inspection, a university study of roof temperatures, and comments from families. The inspection lists cracked surfaces and estimates that replacing the roofs would cost $1.2 million. It also notes that Building C needs repairs first because water has entered two classrooms. This source helps planners identify urgent maintenance needs, but it does not show whether a lighter roof would reduce indoor heat or energy use.

2. A research team at State University measured surface temperatures on four nearby roofs during July 2023. At midday, the two white-coated roofs were 28 to 31 degrees Fahrenheit cooler at the surface than the two dark roofs. The researchers caution that surface temperature is not the same as classroom temperature, which also depends on insulation, windows, and air-conditioning. Their method and measurements provide evidence about heat absorption. However, the study examined only four roofs, so the board should avoid treating its results as a precise prediction of Riverton's future electricity bills.

3. In a September 2024 survey, 186 Riverton families responded to an online district questionnaire. Seventy-two percent said at least one classroom felt too hot during the previous spring, and 64 percent supported investigating cool roofs. Because participation was voluntary, the results describe respondents rather than every family. When presenting information, a board member could group the inspection under cost and repairs, the university study under heat evidence, and the survey under community experience. Keeping each claim beside its source and limitation would help the board distinguish measured results, estimates, and opinions before making a decision.

2 ANSWER WITH EVIDENCE

Use the passage

1. For each purpose, name the best source from the passage: identifying the most urgent building repair, comparing roof surface temperatures, and reporting families' views.

2. Why should the board avoid using the university study to predict Riverton's exact future electricity bills?

3. A board member says, "Every Riverton family supports cool roofs." Use the survey information to explain why this claim is inaccurate.

4. Organize two pieces of evidence from the passage. What source belongs under heat evidence, and what did it measure? What source belongs under community experience, and what did it report?

3 YOUR TURN

Your own words

Choose one school decision, such as changing lunch periods or adding bike racks. Complete the table with three different source types, the information you would gather from each, and a question or limit you would track.

SCHOOL DECISION	SOURCE TYPE	INFORMATION TO GATHER	QUESTION OR LIMIT TO TRACK

ANSWER KEY

Roof Decision File

GRADE 12 · 12.R.1.B

PART 1 · READ AND MARK

Underline each claim a board could use, circle the words that name its source, and number each limitation you find. These marks will help you sort evidence from estimates and opinions. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	For each purpose, name the best source from the passage: identifying the most urgent building repair, comparing roof surface temperatures, and reporting families' views.	**Urgent repair: the 2024 roofing inspection. Surface temperatures: the State University study. Families' views: the September 2024 online district survey.**
2	Why should the board avoid using the university study to predict Riverton's exact future electricity bills?	**The study measured only four roofs and measured surface temperature, not classroom temperature or electricity use. Classroom temperature also depends on insulation, windows, and air-conditioning.**
3	A board member says, "Every Riverton family supports cool roofs." Use the survey information to explain why this claim is inaccurate.	**Only 64 percent of the 186 responding families supported investigating cool roofs. The survey was voluntary, so it describes respondents, not every Riverton family.**
4	Organize two pieces of evidence from the passage. What source belongs under heat evidence, and what did it measure? What source belongs under community experience, and what did it report?	**The State University study belongs under heat evidence, and it measured roof surface temperatures. The family survey belongs under community experience, and it reported families' views about hot classrooms and investigating cool roofs.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

SCHOOL DECISION	SOURCE TYPE	INFORMATION TO GATHER	QUESTION OR LIMIT TO TRACK
Adding covered bike racks	Facilities inspection	Available pavement, drainage, and possible rack locations	Does it show bicycle demand during busy times?
Adding covered bike racks	Student travel survey	How many students bike and what storage they need	Voluntary responses may not represent all students.
Adding covered bike racks	Vendor quote	Rack, cover, and installation costs	Could the quoted price change before installation?

Accept equivalent source plans that use three distinct source types and connect each source to relevant information. Each row should include a meaningful question or limitation, such as sample bias, incomplete data, changing costs, or a missing comparison.