Cleaner Air Decisions

Use evidence to explain a council decision.

11.P.EICC.2.b "Make use of texts to build knowledge, develop skills, make informed decisions, and share information and ideas. (I/C)"

NAME _____ DATE _____

1 READ AND MARK

Read it twice

YOUR JOB Underline each source, circle the evidence it adds, and number 1, 2, or 3 beside the council's actions: gathering information, comparing options, or sharing a recommendation.

Cleaner Air, Clear Reasoning

1. After several smoky days closed outdoor practices, the student activities council considered buying portable air cleaners for the gym. Members began with the Environmental Protection Agency's Air Quality Index, which reports how air pollution may affect health. They also read the gym's ventilation report, which showed that its older system brought in outdoor air but did not filter fine particles as effectively as newer equipment. The texts gave the group a shared starting point rather than a quick opinion.

2. Next, the council compared three cleaner models using manufacturer specifications and a consumer-testing article. The article explained that a cleaner's clean air delivery rate, or CADR, estimates the volume of filtered air it delivers each minute. Model A had the highest CADR, but its filters cost more each year. Model B had a lower CADR and lower filter costs. The council calculated that two Model A units would cover the gym's size more reliably than three Model B units.

3. Before voting, members read a district budget memo and interviewed the head custodian about storage and filter replacement. The memo showed that the current equipment fund could pay for two Model A units without cutting another scheduled repair. In a brief recommendation to the principal, the council named its sources, explained the tradeoff between performance and yearly cost, and proposed a review after one smoke season. The principal could see both the evidence and remaining uncertainty about future filter prices and smoke conditions during the year.

2 ANSWER WITH EVIDENCE

Use the passage

1. What did the AQI and ventilation report each contribute to the council's knowledge?

2. What tradeoff did the council find when comparing Models A and B?

3. What calculation supported the choice of Model A?

4. How did the council make its recommendation useful to the principal?

3 YOUR TURN

Your own words

Choose a school decision. Write a 60-80-word recommendation to a school leader that uses two texts or sources. Name each source, give one relevant detail from each, state a decision, and explain one tradeoff.

ANSWER KEY

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GRADE 11 · 11.P.EICC.2.b

PART 1 · READ AND MARK

Underline each source, circle the evidence it adds, and number 1, 2, or 3 beside the council's actions: gathering information, comparing options, or sharing a recommendation. Accept any marking that follows this job and points at the right text.

PART 2 · ANSWERS

#	QUESTION	ANSWER
1	What did the AQI and ventilation report each contribute to the council's knowledge?	**The AQI provided information about health effects of pollution. The ventilation report showed that the gym's system did not filter fine particles as effectively as newer equipment.**
2	What tradeoff did the council find when comparing Models A and B?	**Model A had a higher CADR but higher yearly filter costs. Model B had a lower CADR and lower filter costs.**
3	What calculation supported the choice of Model A?	**The council calculated that two Model A units would cover the gym more reliably than three Model B units.**
4	How did the council make its recommendation useful to the principal?	**It named sources, explained the performance-cost tradeoff, and proposed a review while acknowledging uncertainty.**

PART 3 · YOUR TURN (SAMPLE ANSWER)

I recommend adding covered bike racks near the east entrance. A student transportation survey found that 48 students bike at least twice a week, and the facilities map identifies an unused paved area beside the entrance. The racks would protect bikes from rain and may encourage riding. They would reduce space for two staff parking spots, so the school should monitor parking use after installation.

For the open task, accept varied school decisions when the response names two sources, uses relevant evidence, makes a clear recommendation, and explains a tradeoff.