

READING COMPREHENSION WORKSHEET

Scientific Inquiry Cycle: Review

35+ QUESTIONS

GRADE
08

6. What factor should be considered when designing a test to solve a problem?
- a. Randomness only
 - b. Ignoring environmental impacts
 - c. Time constraints
 - d. Random guesses

7. What should you do if improving one part of a solution causes problems elsewhere?
- a. Ignore the new problems
 - b. Tweak the trade-offs carefully
 - c. Stop the project immediately
 - d. Plan the solution without thinking

8. Which of these is a good problem that science can help solve?
- a. Waste management in the community
 - b. Global climate change
 - c. Ancient history
 - d. Planets in outer space

9. How does documenting a solution help in the scientific process?
- a. Shows the problem was solved
 - b. Prevents anyone from using the idea
 - c. Helps others understand and build on it
 - d. Adds unnecessary details

10. What should be done if a scientific solution is unsafe?
- a. Modify or abandon it for safety
 - b. Use it anyway
 - c. Hide it away
 - d. Ignore safety and focus on speed

11. Which is an example of a constraint?
- a. Working without any tools
 - b. Unlimited time to finish the project
 - c. No access to resources
 - d. Choosing materials that cost less than

Name _____

Scientific Inquiry Cycle: Review

Science helps researchers solve problems by applying knowledge and creating finding others' based with a test. Many such as understanding or waste management using science to make or improve solutions can have a positive impact. Understanding the problem fully, including its causes and effects, is the first step in finding an effective solution.

Designing solutions requires considering various constraints, such as budget, time, and safety concerns. Documenting the part of a solution might face challenges, as it is important to weigh trade-offs carefully. For example, choosing materials for a house that may affect its cost and ease of use, which influence the effectiveness of the solution.

After developing a solution, documenting how it works, what constraints affected it, and any compromises made helps others learn and possibly improve on the idea. Communication, sharing findings clearly, and reflecting on the impacts of the innovation are essential steps. This process encourages sharing ideas, healthy challenges, responsible decision-making, and team communication.

6. Mark the best answer for each question.

1. What is the first important step when applying science to solve a local problem?
- a. Designing a solution immediately
 - b. Relying on local experience and intuition
 - c. Ignoring safety concerns
 - d. Understanding the problem fully

2. What does documenting constraints in a solution help with?
- a. Making the process of the solution
 - b. Evaluating constraints like budget and safety
 - c. Showing how to solve the problem
 - d. Demonstrating that the solution has no flaws

3. Which is an example of a trade-off?
- a. Finding a solution without any constraints
 - b. Ignoring safety concerns
 - c. Weighing the pros and cons of different materials
 - d. Using unsafe materials

4. Why is it important to document a solution?
- a. To attract new users to the solution
 - b. To make others aware
 - c. To record the process and constraints
 - d. To avoid documenting the solution



6. Mark if the statement is True (T) or False (F).

When making a solution, it is important to consider the trade-offs between different factors. For example, choosing materials for a house that may affect its cost and ease of use, which influence the effectiveness of the solution.

Answer for each question.

6.1. Document a problem fully before designing a solution?

6.2. Why must this be considered in designing a solution?

6.3. Trade-off that might happen when creating a new idea?

6.4. How might improve scientific solutions in communities?

6.5. Why are trade-offs essential in scientific problem-solving?

ANSWER KEY

DIGITAL & PRINTABLE

BC

2nd Semester Inquiry Review Answer Key

L Darling-Hammond



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