

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?
- Randomness only
 - Ignoring environmental impacts
 - Time constraints
 - Random guesses

7. What should you do if improving one part of a solution causes problems elsewhere?
- Ignore the new problems
 - Revisit the trade-offs regularly
 - Stop the problem immediately
 - Plan the solution without thinking

8. Which of these is a good problem that science can help solve?
- Waste management in the community
 - Global climate change
 - Human history
 - Human music choices

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

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

11. Which is an example of a constraint?
- Working without any tools
 - Unknown time to finish the project
 - Too many resources
 - Choosing materials that cost too much

Source: <https://www.teachmeanthology.com/2018/08/08/08-science-inquiry-cycle-review-questions/>

Name: _____

Scientific Inquiry Cycle: Review

Science helps researchers solve problems by applying knowledge and creating testing often based on a test theory such as understanding or testing a hypothesis using evidence or ideas or hypotheses 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, especially, 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, can influence the effectiveness of the solution.

After developing a solution, documenting how it works, what constraints affected it, and any compromises made help others learn and possibly improve on the idea. Communication, sharing knowledge openly, and reflecting on the impacts of the innovation are essential steps. This process involves sharing knowledge, healthy challenges, responsible decision-making, and being communicative.

6. Mark the best answer for each question.

1. What is the first important step when applying science to solve a local problem?
- Designing a solution immediately
 - Using the most expensive materials
 - Ignoring safety concerns
 - Understanding the problem fully

2. What does documenting constraints in a solution help with?
- Ignoring the problems of the solution
 - Documenting constraints like budget and safety
 - Showing how to solve the problem
 - Demonstrating that the solution has no flaws

3. Which is an example of a trade-off?
- Finding a solution without any tools
 - Ignoring safety concerns
 - Time taken to finish the project
 - Using unsafe materials

4. Why is it important to document a solution?
- To attract new users to the solution
 - To make others aware
 - To avoid the problem from occurring
 - 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 the benefits and the costs. Understanding the problem fully, including its causes and effects, is the first step in finding an effective 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

Didier Musso



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