

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 process 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
 - Planets in outer space

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
 - Add 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
 - No access to 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 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 solve a problem, but it is important to weigh these trade-offs carefully. For example, creating 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 through clearly and reflecting on the impacts of the innovation and scientific steps. This process involves how sharing science locally encourages responsible decision-making and helps communities thrive.

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 avoid constraints
 - Demonstrating that the solution has no risks

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 improve the solution
 - To make others aware
 - To avoid the problems that can arise
 - 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. For example, if you want to make a solution that is fast and cheap, you might have to sacrifice quality or safety.

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

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BC

2nd Semester Inquiry Review Answer Key

R Barnett



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