

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 project 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
 - Too many resources
 - Choosing materials that cost too much

Source: Adapted from Reading Comprehension Worksheets

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

When making a solution, it is important to consider the trade-offs between the different parts of the solution. (T) (F)

Answer for each question:

When making a solution, it is important to consider the trade-offs between the different parts of the solution. (T) (F)

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Scientific Inquiry Cycle: Review

Science helps us understand the world by asking questions and finding answers. When faced with a problem, such as water being too salty for drinking, using science to make an improvement 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 progress of a solution helps track changes, prevent mistakes, and is important to weigh trade-offs carefully. For example, creating a solution for a water filter may affect its cost and ease of use, which influences 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 knowledge openly, and reflecting on the impacts of the innovation are essential steps. This process encourages sharing ideas, testing solutions, responsible decision-making, and being communicative about the solution.

13. Mark the best answer for each question.

1. What is the first important step when starting science to solve a 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 progress of the solution
 - Tracking constraints like budget and safety
 - Showing how to avoid constraints
 - Demonstrating that the solution has no flaws

3. Which is an example of a trade-off?
- Finding a solution without any constraints
 - Ignoring safety concerns
 - Too many resources
 - Using unsafe materials

4. Why is it important to document the progress of a solution?
- To avoid any safety or health concerns
 - To make others aware
 - To track the progress and identify constraints
 - To avoid documenting the solution



ANSWER KEY

DIGITAL & PRINTABLE

BC

2nd Semester Inquiry Review Answer Key

Hussin A.Rothana



2nd Semester Inquiry Review Answer Key:

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