

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 compromise?
- Deciding without any trade
 - Understanding how to finish the project
 - Not caring about resources
 - Choosing materials that cost less than

Source: Adapted from Reading Comprehension Worksheets

Name: _____

Scientific Inquiry Cycle: Review

Science helps researchers solve problems by applying knowledge and creating testing other based with a test theory such as understanding or testing management using evidence or ideas 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, especially, as it is important to weigh trade-offs carefully. For example, choosing materials for a case 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 knowledge openly, and reflecting on the impacts of the innovation are essential steps. This process encourages sharing ideas, healthy challenges, responsible decision-making, and team communication.

12. 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
 - Understanding the solution and safety
 - Showing how to solve the problem
 - Demonstrating that the solution has no risks
3. Which is an example of a trade-off?
- Finding a solution without any trade
 - Ignoring safety concerns
 - Not caring about resources
 - Using unsafe materials
4. Why is it important to document a solution?
- To show how the solution was made
 - To make others aware
 - To avoid the problem of safety
 - To avoid documenting the solution



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

When making a solution, it is important to consider the safety of the solution. When applying science to solve a local problem, it is important to understand the problem fully, including its causes and effects. When making a solution, it is important to consider the safety of the solution. When applying science to solve a local problem, it is important to understand the problem fully, including its causes and effects.

Answer for each question.

1. What is the first important step when applying science to solve a local problem?

2. What does documenting constraints in a solution help with?

3. Which is an example of a trade-off?

4. Why is it important to document a solution?

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

ANSWER KEY

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BC

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Vermont. Supreme Court



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