

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

Source: <https://www.teachmeanthology.com/2018/08/01/scientific-inquiry-cycle/>

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, 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, which influence the effectiveness of the solution.

After developing a solution, documenting how it works, what constraints affected it, and any compromises that have been made and possibly involve on the way. Communication, sharing knowledge clearly, and reflecting on the impacts of the innovation and science steps. This process involves how sharing science locally encourages responsible decision-making and leads 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
 - Understanding the solution and safety
 - Showing how to solve
 - 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 works
 - To make others aware
 - To avoid the problems of the solution
 - 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

SJ Ball



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Informed Learning Applications Kim L. Ranger, 2019-08-26 Informed Learning Applications is the latest volume of rigorous research in the Advances in Librarianship series Edited by experienced librarian Kim L Ranger the eight contributions to this volume describe various practices extending Christine Bruce s informed learning theory across a range of educational spaces

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Communities at Home and Abroad: Australia and the Aborigines Educational Research Council of America. Social Science Staff,1974 **Index to Book Reviews in Religion** ,1993 **A Guide to the Evaluation of Educational Experiences in the Armed Services** American Council on Education,1984

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