

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
 - Plasma fusion research

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
 - No money or resources
 - Choosing materials that don't fit the goal

Source: <https://www.teachmeanthetwenty.com/>

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 making improvements 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 help others learn and possibly improve on the idea. Communication, sharing knowledge clearly, and reflecting on the impacts of the innovation are essential 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 evidence 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
 - Eliminating 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 or investors
 - To make others aware
 - To record the process and constraints
 - To prove the solution is effective



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

When making a solution, it is important to consider the trade-offs between different factors. For example, choosing materials for a case that may affect its cost and ease of use, which influence the effectiveness of the 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 case that

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

Karin Nielsen-Saines



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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

Beginning Qualitative Research Pamela Maykut, Richard Morehouse, 2002-11-01 The authors have focused this book on the serious beginning qualitative researcher theoretically rigorous yet with an understandable perspective The book has three main features First it provides a strong theoretical base for the understanding of competing research paradigms Secondly it features a methods section consistent with the non linear nature of naturalistic inquiry yet it allows the beginner to see direction Thirdly the authors include examples of actual research studies conducted and completed in a single year

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Learning Environments and the Global Workplace provides readers with a rationale and tool kit for facilitating virtual learning in a wide variety of contexts in response to the opportunities and challenges presented by the digital global workplace. This book covers virtual learning practices, the value of virtual learning for professionals and employers, and the best practices in online learning in different settings. Additionally, the chapters dive into the future perspectives and trends within virtual learning environments and the creation and evaluation of virtual learning strategies. These insights range from diverse countries, education levels, industry sectors, and academic disciplines, making this book a comprehensive research tool. This book will greatly benefit e-learning and instructional designers, university senior managers, university staff responsible for mobility and exchange, researchers, professionals responsible for organizational development and further education, human resource directors, global company executives, managers, practitioners, stakeholders, academicians, and students looking for information on how virtual learning environments are preparing students for the global workplace.

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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