

Scientific Inquiry Cycle: Review

35+ QUESTIONS

GRADE
08

6. What factor should be considered when designing a local science solution?
- Personalized only
 - Ignoring environmental issues
 - Time constraints
 - Random guesses
7. What should you do if encountering one part of a scientific inquiry problem is too difficult?
- Ignore the hard problem
 - Break the task into smaller parts
 - Stop the problem completely
 - Plan the solution without thinking
8. What is/are a good problem that science can help solve?
- Waste management in the community
 - Climate change
 - Resource scarcity
 - Population growth
9. How does identifying a solution help in the scientific process?
- It solves the problem once and for all
 - It prevents anyone from using the idea
 - It helps others understand and build on it
 - It adds unnecessary steps
10. What should be done if a scientific solution is unclear?
- Modify or abandon it for safety
 - Use it anyway
 - Take it slowly
 - Ignore safety and focus on speed
11. Which is an example of a constraint?
- Working without any tools
 - Understanding how to finish the project
 - No access to resources
 - Choosing materials that can be reused

Name: _____

Scientific Inquiry Cycle: Review

Science helps us understand and solve problems by developing knowledge and creating things that help us live better. Each step in the cycle is important. Using science to solve a problem 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. Constraints represent limits on what you can do. Challenges, problems, and the need to weigh trade-offs carefully. For example, creating a solution for a water filter that is both effective and easy to use, cannot ignore the effectiveness of the solution.

After identifying a solution, documenting how it works, what constraints affected it, and any compromises that have already been made are also important. Communication, using simple words, and explaining the results of the solution are important steps. This process helps the community understand the solution, encourages feedback, and helps improve the solution.

6A. Mark the best answer for each question.

1. What is the first important step when working on a local problem?
- Thinking of a solution
 - Ignoring the most important materials
 - Ignoring safety concerns
 - Understanding the problem fully
2. What does documenting constraints in a solution help with?
- Ignoring the constraints of the solution
 - Explaining the solution to the community and safety
 - Showing how to solve the problem
 - Documenting that the solution has no issues
3. Which is an example of a trade-off?
- Finding a solution with no constraints
 - Ignoring safety concerns
 - Understanding the problem fully
 - Using simple materials
4. Why is communication important in the scientific process?
- To avoid any safety concerns
 - To make the solution more complex
 - To explain the problem to the community
 - To avoid documenting the solution



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

1. A solution made after one failed attempt is always better than one made after many failed attempts.

Answer for each question.

1. Document a problem fully before designing a solution?

2. Why must this be considered in designing a solution?

3. Breakdown the problem into smaller parts?

4. How does identifying a solution help in the scientific process?

5. Why is communication important in the scientific process?

ANSWER KEY
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2nd Semester Inquiry Review Answer Key

Kathleen Armour



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