

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 communities solve problems by developing knowledge and creating things that "solve" with a local focus such as water quality 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. Sometimes, important parts of a solution might be challenging, so it's important to weigh these trade-offs carefully. For example, creating materials for a house that are affordable to build and easy to use, cannot influence the effectiveness of the solution.

After identifying a solution, determining how it works, what constraints affected it, and any compromises that have already been or should be made on the way. Communication, using design models, and reflecting on the results of the solution are important steps. This process can help identify areas that need further improvement, encourage decision-making, and learn from mistakes.

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 immediately
 - Ignoring the most important materials
 - Ignoring safety concerns
 - Understanding the problem fully
2. What does determining constraints in a solution help with?
- Ignoring the constraints of the solution
 - Establishing a budget, time, and safety
 - Knowing how to avoid
 - Determining that the solution has no issues
3. Which is an example of a trade-off?
- Finding a solution with no constraints
 - Ignoring safety concerns
 - Knowing how to avoid
 - Using unsafe materials
4. Why is communication important?
- To avoid not being understood
 - To make ideas clearer
 - To finish the project as quickly as possible
 - To avoid discussing the work



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

1. A solution made after one failed attempt is always better than the first one.

Answer for each question.

1. Is a solution made after one failed attempt always better than the first one?

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

3. What might happen when creating a solution that

4. How might science solutions be implemented?

5. Why are trade-offs essential in scientific understanding?

6. _____

ANSWER KEY

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BC

2nd Semester Inquiry Review Answer Key

L Cohen



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