

## Scientific Inquiry Cycle: Review

35+ QUESTIONS

GRADE  
08

6. What factor should be considered when designing a local science solution?
- a. Resources only
  - b. Spreading environmental issues
  - c. Time constraints
  - d. Member queries
7. What should you do if encountering one part of a scientific inquiry problem is too difficult?
- a. Ignore the hard problem
  - b. Break the task into smaller parts
  - c. Skip the problem completely
  - d. Plan the solution without thinking
8. What is/are a good problem that science can help solve?
- a. Waste management in the community
  - b. Disease control issues
  - c. Access to water
  - d. Pollution from factories
9. How does identifying a solution help in the scientific process?
- a. Shows the problem has been solved
  - b. Provides evidence from using the data
  - c. Helps others understand and build on it
  - d. Adds unnecessary steps
10. What should be done if a scientific solution is unclear?
- a. Modify or abandon it for safety
  - b. Use it anyway
  - c. Make it clearer
  - d. Ignore safety and focus on speed
11. Which is an example of a constraint?
- a. Working without any tools
  - b. Unlimited time to finish the project
  - c. No access to resources
  - d. Choosing materials that can be reused

Name: \_\_\_\_\_

### Scientific Inquiry Cycle: Review

Science helps communities solve problems by applying knowledge and creating things that "solve" with a local issue 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. Community members have a part of a solution might face challenges, however, and it is important to weigh these trade-offs carefully. For example, creating materials for a water filter may affect its cost and ease of use, which influenced the effectiveness of the solution.

After identifying a solution, documenting how it works, what constraints affected it, and any compromises that have already been or should be made on the way. Communication, giving credit to others, and reflecting on the results of the solution are important steps. This process can help identify future needs, locally encourage responsible decision-making, and build community trust.

#### 6A. Mark the best answer for each question.

1. What is the first important step when working on a local problem?
- a. Designing a solution
  - b. Spreading the most expensive materials
  - c. Spreading safety concerns
  - d. Understanding the problem fully
2. What does documenting constraints in a solution help with?
- a. Finding the constraints of the solution
  - b. Evaluating the solution's cost and safety
  - c. Showing how to avoid constraints
  - d. Determining what the solution has no costs
3. Which is an example of a trade-off?
- a. Finding a solution with no costs
  - b. Spending money on one part of the solution
  - c. Using unlimited materials
  - d. Using unsafe materials
4. Why is communication important?
- a. To avoid not being in agreement
  - b. To make ideas clearer
  - c. To finish the problem by comparing
  - d. 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.

2. A solution that is safe and effective is always better than one that is only safe.

3. A solution that is safe and effective is always better than one that is only effective.

4. A solution that is safe and effective is always better than one that is only safe and effective.

#### Answer for each question.

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

\_\_\_\_\_

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

\_\_\_\_\_

3. What might happen when creating a water filter?

\_\_\_\_\_

4. How might science solutions be implemented?

\_\_\_\_\_

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

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ANSWER KEY  
DIGITAL & PRINTABLE

BC

# 2nd Semester Inquiry Review Answer Key

**IM Harris**



**2nd Semester Inquiry Review Answer Key:**

The book delves into 2nd Semester Inquiry Review Answer Key. 2nd Semester Inquiry Review Answer Key is a vital topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into 2nd Semester Inquiry Review Answer Key, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to 2nd Semester Inquiry Review Answer Key
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    - Chapter 3: 2nd Semester Inquiry Review Answer Key in Everyday Life
    - Chapter 4: 2nd Semester Inquiry Review Answer Key in Specific Contexts
    - Chapter 5: Conclusion
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