

## 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. Which of these is a hard problem that science can help solve?
- Waste management in the community
  - Global climate change
  - Human history
  - Plastic water bottles
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 consensus?
- Deciding without any input
  - Unanimous input to finish the project
  - No input or resources
  - Choosing multiple solutions for a task

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 conditions, such as budget, time, and safety concerns. Sometimes, important parts of a solution might be overlooked, so it is important to weigh these trade-offs carefully. For example, creating materials for a house that may affect its cost and ease of use, cannot influence the effectiveness of the solution.

After identifying a solution, determining how it works, what conditions affected it, and any compromises that have already been or should be made on the idea. Communication, using design models, and reflecting on the results of the solution are important steps. This process can help identify areas that may encourage improvements, decision-making, and team communication skills.

#### 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
  - Using the most expensive materials
  - Ignoring safety concerns
  - Understanding the problem fully
2. What does determining trade-offs in a solution help with?
- Ignoring the conditions of the solution
  - Establishing a consensus for the solution and safety
  - Breaking the task into smaller parts
  - Determining what the solution has to solve
3. Which is an example of a trade-off?
- Thinking a solution will solve the problem
  - Using materials that are safe and cheap
  - Using materials that are safe but expensive
  - Using unsafe materials
4. Why is communication important in the scientific process?
- To avoid not being in agreement
  - To make ideas clearer
  - To finish the project as quickly as possible
  - To avoid discussing the problem



#### 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 trade-offs 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?

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