



Name: _____ Grade: _____ Date: _____

Scientific Method

1. A series of steps used by scientists to solve a problem or answer a question.

- | | | | |
|----------------------------|-------------------|----------------------------|-----------------|
| <input type="checkbox"/> A | metric system | <input type="checkbox"/> B | data collection |
| <input type="checkbox"/> C | scientific method | <input type="checkbox"/> D | recipe |

2. Which is NOT a step in the scientific method?

- | | | | |
|----------------------------|------------------|----------------------------|-------------------|
| <input type="checkbox"/> A | Make observation | <input type="checkbox"/> B | Form a hypothesis |
| <input type="checkbox"/> C | Form a theory | <input type="checkbox"/> D | Collect data |

3. A testable explanation to a problem that has not yet been tested.

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|----------------------------|--------|----------------------------|------------|
| <input type="checkbox"/> A | data | <input type="checkbox"/> B | fact |
| <input type="checkbox"/> C | theory | <input type="checkbox"/> D | hypothesis |

4. Testing a hypothesis often involves a(n):

- | | | | |
|----------------------------|--------------|----------------------------|------------|
| <input type="checkbox"/> A | answer | <input type="checkbox"/> B | experiment |
| <input type="checkbox"/> C | safety check | <input type="checkbox"/> D | problem |

5. The summary at the end of an experiment that explains the results.

- | | | | |
|----------------------------|---------------------|----------------------------|------------|
| <input type="checkbox"/> A | responding variable | <input type="checkbox"/> B | procedures |
| <input type="checkbox"/> C | materials | <input type="checkbox"/> D | conclusion |

6. What is the first step in the scientific method?

- | | | | |
|----------------------------|----------------|----------------------------|------------|
| <input type="checkbox"/> A | Ask a question | <input type="checkbox"/> B | Conclusion |
| <input type="checkbox"/> C | No Horse Play | <input type="checkbox"/> D | Observe |

7. What is a hypothesis?

- | | | | |
|----------------------------|--|----------------------------|--|
| <input type="checkbox"/> A | A hypothesis is the right answer to an experiment. | <input type="checkbox"/> B | A hypothesis is the wrong answer to an experiment. |
| <input type="checkbox"/> C | A hypothesis is an educated guess. | <input type="checkbox"/> D | I don't know. |

8. Which of the following is NOT a testable question?

- | | | | |
|----------------------------|---|----------------------------|--|
| <input type="checkbox"/> A | How do rockets work? | <input type="checkbox"/> B | Does the freezing point of water change at different elevations? |
| <input type="checkbox"/> C | Does heart rate increase with exercise? | <input type="checkbox"/> D | Does fertilizer help plants grow bigger? |

9. An educated guess in science is called a/an

- | | | | |
|----------------------------|------------|----------------------------|------------|
| <input type="checkbox"/> A | conclusion | <input type="checkbox"/> B | procedure |
| <input type="checkbox"/> C | lucky | <input type="checkbox"/> D | hypothesis |

10. To make observations you use your .

- | | | | |
|----------------------------|------------|----------------------------|-------|
| <input type="checkbox"/> A | experience | <input type="checkbox"/> B | feet |
| <input type="checkbox"/> C | senses | <input type="checkbox"/> D | smile |

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Answers

1.C

2.C

3.D

4.B

5.D

6.D

7.C

8.A

9.D

10.C

