

Theories Practice Worksheet

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1. For a scientific theory to be valid, it must allow you to:
 - a. Perform experiments
 - b. Obtain new results each time
 - c. Find a new, more complex explanation
 - d. Both A and B

2. Scientists can use a theory to:
 - a. Offer reliable explanations
 - b. Offer unreliable explanations
 - c. Both A and B
 - d. None of the above

3. A theory provides a model of reality that is simpler than the phenomenon itself.
 - a. TRUE
 - b. FALSE

4. In science, a law describes a phenomenon or set of phenomena, whereas a theory explains why something occurs.
 - a. TRUE
 - b. FALSE

5. A scientific law is not always true under the same conditions.
 - a. TRUE
 - b. FALSE

6. An explanation that always applies under the same circumstances is a _____.
 - a. Law
 - b. Theory
 - c. Factor
 - d. Variable

7. Every experiment does not necessarily lead to a theory.
 - a. TRUE

b. FALSE

8. A _____ is a description of something that happens; it doesn't explain why it happens.

- a. data
- b. law
- c. theory
- d. hypothesis

9. Which of the following is most important in science?

- a. hypothesis
- b. theory
- c. law
- d. all of the above

10. A scientific theory:

- a. Can't be improved further
- b. Is evidence-based
- c. Can't be tested by doing observations
- d. All of the above

Printed: February 12, 2021

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