

## 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

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