Theories Practice Worksheet

Visit CK12.org for Free Online Practice

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

LIVEWORKSHEETS

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

LIVEWORKSHEETS

Printed: February 12, 2021

flexbook
next generation textbooks

CC BY NC

LIVEWORKSHEETS