

Developing Hypotheses Practice Worksheet

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1. A hypothesis must be _____ and falsifiable.

- a. testable
- b. truthful
- c. correct
- d. accepted by all scientists

2. A hypothesis must be complex.

- a. TRUE
- b. FALSE

3. Fill in the blank(s):

Complete the sentence using one of the following words: ***hypothesis, experiment, or conclusion.***

A(n) _____ is based on observations and must be testable and falsifiable.

4. Scientists can test a hypothesis by performing experiments.

- a. TRUE
- b. FALSE

5. A hypothesis:

- a. Allows scientists to test an explanation for a phenomenon
- b. Is falsifiable
- c. Is in a testable form
- d. All of the above

6. It is possible to test more than one hypothesis in same experiment.

- a. TRUE
- b. FALSE

7. _____ is developed by a researcher as a reasonable explanation to explain a small range of phenomena.

- a. An inference
- b. A theory
- c. A law
- d. A hypothesis

8. Which among the following should be considered while framing a hypothesis?

- a. Is it testable
- b. Is it limited in scope
- c. Is it falsifiable
- d. All of the above

9. The next step in the scientific method after asking a question is to:

- a. Predict what will happen
- b. Draw conclusions
- c. Design and run an experiment
- d. Make a hypothesis

10. A hypothesis is discarded when:

- a. Data contradicts the hypothesis
- b. Data supports the hypothesis
- c. A theory is developed
- d. None of the above

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