

1

The Science of Biology

Chapter Test A

Multiple Choice

Write the letter that best answers the question or completes the statement on the line provided.

- _____ 1. Science differs from other disciplines, such as history and the arts, because science relies on
- facts.
 - testing explanations.
 - observations.
 - theories.
- _____ 2. Measurements made while observing a plant grow 3 cm over a two-week period are called
- inferences.
 - variables.
 - hypotheses.
 - data.
- _____ 3. Based on your observations, you suggest that the presence of water could accelerate the growth of bread mold. This is
- a conclusion.
 - a hypothesis.
 - an experiment.
 - an analysis.
- _____ 4. Suppose that a scientist proposes a hypothesis about how a newly discovered virus affects humans. Other virus researchers would likely
- reject the hypothesis right away.
 - change the hypothesis to fit their own findings.
 - design new experiments to test the proposed hypothesis.
 - assume that the hypothesis is true for all viruses.
- _____ 5. Why is creativity considered a scientific attitude?
- Scientists need creativity to make good posters to explain their ideas.
 - Creativity helps scientists come up with different experiments.
 - Creative scientists imagine the results of experiments without doing them.
 - Scientists who are creative are better at handling and training animals.
- _____ 6. Who reviews articles for peer-reviewed journals?
- friends of the scientists who wrote the articles
 - anonymous and independent experts
 - the scientists who did the experiments
 - people who paid for the experiments
- _____ 7. How does sharing ideas through peer-reviewed articles help advance science?
- Peer-reviewed articles are published only when the ideas they contain have been accepted by most scientists.
 - Experiments in peer-reviewed articles do not need to be repeated.
 - Scientists reading the articles may come up with new questions to study.
 - Ideas in the articles always support and strengthen dominant theories.

Modern Biology Chapter Test

Henry Smith Williams



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