



Unit 1 – Introduction to Biology

Lesson 003 Quiz: The Scientific Method

Question 1

What is the first step that often begins scientific inquiry?

- A.** Forming a hypothesis
- B.** Conducting an experiment
- C.** Making careful observations
- D.** Publishing results
- E.** Revising conclusions

Question 2

A scientific question must be:

- A. Interesting to everyone
- B. Answerable with evidence
- C. Based on personal beliefs
- D. Impossible to test
- E. Already answered

Question 3

What is a hypothesis?

- A. A proven scientific fact
- B. A random guess without evidence
- C. A proposed explanation consistent with existing evidence
- D. The final conclusion of an experiment
- E. A collection of observations

Question 4

Why are predictions important in science?

- A. They replace experiments.
- B. They connect hypotheses to evidence.
- C. They guarantee correct results.
- D. They prevent further research.
- E. They eliminate uncertainty.

Question 5

Which of the following is NOT mentioned as a method scientists use to gather evidence?

- A. Laboratory experiments
- B. Field observations
- C. Comparative studies
- D. Computer models
- E. Astrology

Question 6

According to the lesson, the research method should:

- A.** Always be a laboratory experiment.
- B.** Match the scientific question being asked.
- C.** Be the fastest available method.
- D.** Be the least expensive method.
- E.** Always involve animals.

Question 7

Why do scientists communicate their methods and results?

- A. To increase competition between scientists
- B. To prevent others from repeating the work
- C. So others can evaluate the evidence and test the findings
- D. To keep discoveries secret
- E. To avoid peer review

Question 8

Which process helps identify errors and determine whether scientific findings are dependable?

- A. Advertising
- B. Guessing
- C. Peer review and replication
- D. Personal opinion
- E. Voting

Question 9

Why is science described as self-correcting?

- A. Scientists never make mistakes.
- B. Scientific ideas never change.
- C. Scientists revise explanations when new evidence appears.
- D. Experiments always produce the same results.
- E. Scientific conclusions are absolutely certain.

Question 10

Which sequence best represents the scientific inquiry process described in the lesson?

A. Observation → Question → Explanation → Prediction → Evidence → Communication → Revision

B. Experiment → Observation → Conclusion → Hypothesis → Revision

C. Prediction → Observation → Communication → Evidence → Question

D. Conclusion → Experiment → Observation → Question

E. Communication → Revision → Observation → Experiment

Correct Answers

1. C 2. B 3. C 4. B 5. E 6. B 7. C 8. C 9. C 10. A

Did you get all the answers correct?

If not, don't worry—just watch Lesson 3 again and try the quiz one more time.