GRADE 12 BIOLOGY	Name:
INTRODUCTION TO SCIENCE	Date:
STUDY GUIDE TO 1.2 SCIENCE IN CONTEXT	Date:

Written responses should always be complete and grammatically correct sentence(s).

Multiple choice; circle the one correct answer

- 15. A skeptical attitude in science
 - a. prevents scientists from accepting new ideas.
 - **b.** encourages scientists to readily accept new ideas.
 - c. means a new idea will only be accepted if it is backed by evidence.
 - **d.** is unimportant.
- **16.** The purpose of peer review in science is to ensure that
 - **a.** all scientific research is funded.
 - **b.** the results of experiments are correct.
 - c. all scientific results are published.
 - **d.** published results meet standards set by the scientific community.

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17. A scientific theory is

- **a.** the same as a hypothesis.
- **b.** a well-tested explanation that unifies a broad range of observations.
- **c.** the same as the conclusion of an experiment.
- **d.** the first step in a controlled experiment.

Open Response. Answer with full sentence(s).

18. Why are scientific theories useful? [answer in complete sentence(s)]

19. Why aren't theories considered absolute truths?

Think Critically20. Evaluate Why is it misleading to describe science as a collection of facts?

21. Propose a Solution How would having a scientific attitude help you in everyday activities, for example, in trying to learn a new skill?

22. Conduct Peer Review If you were one of the anonymous reviewers of a paper submitted for publication, what criteria would you use to determine whether or not the paper should be published?