

Assessment

Section Quiz**Section: Science as a Process****MATCHING**

In the space provided, write the letter of the definition that best matches the term or phrase.

- _____ 1. hypothesis
- _____ 2. theory
- _____ 3. independent variable
- _____ 4. observation
- _____ 5. dependent variable

- a. an explanation of a phenomenon that reaches general acceptance
- b. a factor that changes as a result of manipulating other factors
- c. an explanation based on observation
- d. the process of using the senses to obtain information
- e. a factor that is manipulated

MULTIPLE CHOICE

In the space provided, write the letter of the answer choice that best completes each statement or best answers each question.

- _____ 6. Scientific theories are often based on
 - a. dependent variables.
 - b. SI units.
 - c. scientific laws.
 - d. independent variables.
- _____ 7. Space exploration technology has been used to improve
 - a. computers, cars, and medical equipment.
 - b. air quality standards.
 - c. corporate profitability.
 - d. the Alaskan pipeline.
- _____ 8. Which of the following is NOT part of scientific methods?
 - a. form a hypothesis
 - b. draw conclusions
 - c. ask a question
 - d. become a scientist
- _____ 9. What distinguishes science from art, architecture, and philosophy?
 - a. Nothing distinguishes science from these other human endeavors.
 - b. Science exists to explain natural phenomena.
 - c. They all explain natural phenomena.
 - d. Science is more important than these other human endeavors.
- _____ 10. The process of evaluating research before publication is called
 - a. prosecution.
 - b. persecution.
 - c. peer pressure.
 - d. peer review.

Name _____ Class _____ Date _____