

## Assessment

**Quiz****Section: The Nature of Science**

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

- |                        |   |
|------------------------|---|
| _____ 1. ethics        | a. what a person decides is true based on one or more pieces of information |
| _____ 2. conclusion    | b. a system of moral principles and values                                  |
| _____ 3. observation   | c. a truth that is valid everywhere   |
| _____ 4. universal law | d. a doubting or questioning attitude                                       |
| _____ 5. skepticism    | e. what a person notes by using the senses to learn about things            |

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

- \_\_\_\_\_ 6. Which of these is *not* a step in scientific thought?
- making observations
  - questioning new information
  - basing conclusions on evidence
  - sticking to an opinion despite recent discoveries
- \_\_\_\_\_ 7. Why did some scientists doubt the conventional wisdom about ulcers?
- Conventional wisdom is almost never correct.
  - There was little evidence to support the conventional wisdom.
  - They already knew about stress causing ulcers.
  - They already knew about bacteria that cause ulcers.
- \_\_\_\_\_ 8. Which of these is an example of a universal law?
- |                              |                                  |
|------------------------------|----------------------------------|
| a. conservation of energy    | c. requirements for peer review  |
| b. conservation of resources | d. nocturnal behavior of animals |
- \_\_\_\_\_ 9. Why is ethical behavior required in scientific investigations?
- |                                |                                |
|--------------------------------|--------------------------------|
| a. to avoid raising skepticism | c. to prevent harm to people   |
| b. to uphold universal laws    | d. to invent better technology |
- \_\_\_\_\_ 10. Which of these is something studying science will *not* help you do?
- come up with good solutions to community problems
  - hold back critical-thinking processes
  - make good decisions when buying things
  - make good decisions about health