

Assessment

Quiz**Section: The Nature of Science**

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

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|------------------------|---|
| _____ 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?
- a. making observations
 - b. questioning new information
 - c. basing conclusions on evidence
 - d. sticking to an opinion despite recent discoveries
- _____ 7. Why did some scientists doubt the conventional wisdom about ulcers?
- a. Conventional wisdom is almost never correct.
 - b. There was little evidence to support the conventional wisdom.
 - c. They already knew about stress causing ulcers.
 - d. They already knew about bacteria that cause ulcers.
- _____ 8. Which of these is an example of a universal law?
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|------------------------------|----------------------------------|
| 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?
- a. come up with good solutions to community problems
 - b. hold back critical-thinking processes
 - c. make good decisions when buying things
 - d. make good decisions about health