Section: The Nature of Science

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

_____ 1. ethics
_____ 2. conclusion
_____ 3. observation
_____ 4. universal law
_____ 5. skepticism

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?
   a. conservation of energy
   b. conservation of resources
   c. requirements for peer review
   d. nocturnal behavior of animals

_____ 9. Why is ethical behavior required in scientific investigations?
   a. to avoid raising skepticism
   b. to uphold universal laws
   c. to prevent harm to people
   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