Name _____ Class_____Date_____

Critical Thinking

Work-Alikes

In the space provided, write the letter of the term or phrase that best describes how each numbered item functions.

_____ 1. cell

_____ 2. experiment

_____ 3. homeostasis

_____ 4. hypothesis

_____ 5. reproduction

_____ 6. bias

_____ 7. evolution

a. prediction

b. a balancing act

c. atom of life

d. test

e. metamorphosis

f. prejudice

g. using a photocopier

Cause and Effect

In the space provided, write the letter of the term or phrase that best matches each cause or effect given below.

Cause	Effect	
8. _____	Scientists ask questions about natural phenomena.	a. Stars and planets form; dead leaves fall to Earth.
9. Researchers learn that bacteria cause stomach ulcers.	_____	b. Scientists observe organisms and natural events.
10. Scientists review and question each other's work.	_____	c. Scientists make new discoveries, and scientific knowledge grows.
11. _____	Scientists do studies that do not involve conducting controlled experiments.	d. Asking a group of people to do something that would harm them is unethical.
12. universal law of gravitational attraction	_____	e. Doctors stop suggesting patients make lifestyle changes and instead prescribe antibiotics.

Critical Thinking *continued*

Analogies

An analogy is a relationship between two pairs of terms or phrases written as a : b :: c : d. The symbol : is read as "is to," and the symbol :: is read as "as." In the space provided, write the letter of the pair of terms or phrases that best completes the analogy shown.

_____ 13. skepticism : doubt ::
   a. laws : legal system
   b. ethics : beauty
   c. science : observation
   d. symphony : ballet

_____ 14. related hypotheses : theory ::
   a. gates : fence
   b. beads : necklace
   c. arms : legs
   d. scientific tools : scientific techniques

_____ 15. meter : kilometer ::
   a. milliliter : liter
   b. kiloliter : kilogram
   c. centigram : gram
   d. centimeter : meter

_____ 16. microscope : magnify ::
   a. International System of Units : SI
   b. sterile technique : contamination
   c. electronic technology : satellite
   d. safety goggles : protect