

Chapter

17

Organizing Life's Diversity

REINFORCEMENT AND STUDY GUIDE

Section 17.1 Classification

In your notebook, read about two classification systems and about biological classification.

For each item in Column A, write the letter of the matching item in Column B.

Column A

- _____ 1. Grouping objects or information based on similarities
- _____ 2. Naming system that gives each organism a two-word name
- _____ 3. Developed the first system of classification
- _____ 4. Branch of biology that groups and names organisms
- _____ 5. Designed a system of classifying organisms based on their physical and structural similarities
- _____ 6. Consists of a group of similar species

Column B

- a. Aristotle
- b. Linnaeus
- c. genus
- d. classification
- e. taxonomy
- f. binomial nomenclature

Determine if the statement is true. If it is not, rewrite the italicized part to make it true.

7. The scientific name of a species consists of a *family* name and a descriptive name.

8. The scientific name of modern humans is *Homo sapiens*.

9. Latin is the language of scientific names.

10. The scientific names of organisms can be misleading.

11. Taxonomists try to identify the evolutionary relationships among organisms.

12. Besides comparing the structures of organisms, taxonomists also compare the organisms' geographic distribution and chemical makeup.

13. Similarities between living species and extinct species cannot be used to determine their relationship to each other.

14. Because the bones of some dinosaurs have large internal spaces, some scientists think dinosaurs are more closely related to amphibians than to reptiles.

15. Classification can be useful in identifying the characteristics of an unknown organism.

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**Thirumalaisamy P.
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