

Chapter
17**Organizing Life's Diversity****Reinforcement and Study Guide****Section 17.1 Classification**

In your textbook, read about how classification began 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. Linnacus
- 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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