

Chapter Test A

Page 130 • Part A: Multiple Choice

1. D
2. D
3. D

Page 130 • Part B: Matching

1. C
2. A
3. B

Page 131 • Part C: Interpreting Charts and Tables

1. A: Species; B: Genus; C: Phylum; D: Kingdom
2. *Musca domestica*
3. The gray wolf and the dog have the greatest number of taxa in common.

Page 132 • Part D: Short Answer

1. A cladogram is a diagram with branches. Each branch represents the proposed evolution of a group or species of organisms. Groups that are closer to each other share a recent common ancestor.
2. A phylum and a division both contain related classes. However, the term *division* is used instead of *phylum* for the classification of bacteria and plants.

Page 132 • Part E: Concept Application

1. Binomial nomenclature is a two-part scientific naming system based on Latin names. Scientists use Latin names because Latin is an unchanging language. The first part of the gray wolf's name, *Canis*, is the genus of the animal, and the second part, *lupus*, identifies the gray wolf's species.
2. Botanists can identify other plants that are in the same family or genus as the rare daisy, and medical researchers can conduct experiments to determine if closely related plants produce similar chemicals that can be used to treat heart disease.