

Chapter 18 Classification

Finding Order in Diversity

Key Concepts

- How are living things organized for study?
- What is binomial nomenclature?
- What is Linnaeus's system of classification?

Why Classify?

1. Why do biologists use a classification system to study the diversity of life?

2. The science of classifying organisms and assigning them universally accepted names is known as _____.

3. Is the following sentence true or false? In a good system of classification, organisms placed into a particular group are less similar to each other than they are to organisms in other groups. _____

Assigning Scientific Names

4. Why is it confusing to refer to organisms by common names? _____
5. Circle the letter of each sentence that is true about early efforts at naming organisms.
 - a. Names were usually in English.
 - b. Names often described detailed physical characteristics of a species.
 - c. Names could be very long.
 - d. It was difficult to standardize the names.
6. The two-word naming system developed by Linnaeus is called _____.
7. Circle the letter of each sentence that is true about binomial nomenclature.
 - a. The system is no longer in use today.
 - b. Each species is assigned a two-part scientific name.
 - c. The scientific name is always written in italics.
 - d. The second part of the scientific name is capitalized.
8. What is the genus of the grizzly bear, *Ursus arctos*? _____

Name _____ Class _____ Date _____


















































Linnaeus's System of Classification

9. A group or level of organization in taxonomy is called a taxonomic category, or _____.

10. The largest taxonomic category in Linnaeus's system of classification is the _____, and the smallest is the _____.

11. What two kingdoms did Linnaeus name? _____

12. Fill in the name of each missing taxonomic category in the chart below.

Grizzly bear	Black bear	Giant panda	Red fox	Albert squirrel	Coral snake	Sea star	
							KINGDOM Animalia
							Chordata
							Mammalia
							Carnivora
							Ursidae
							Ursus
							SPECIES <i>Ursus arctos</i>

