

Name: _____ Date: _____ Per: _____

The Six Kingdoms

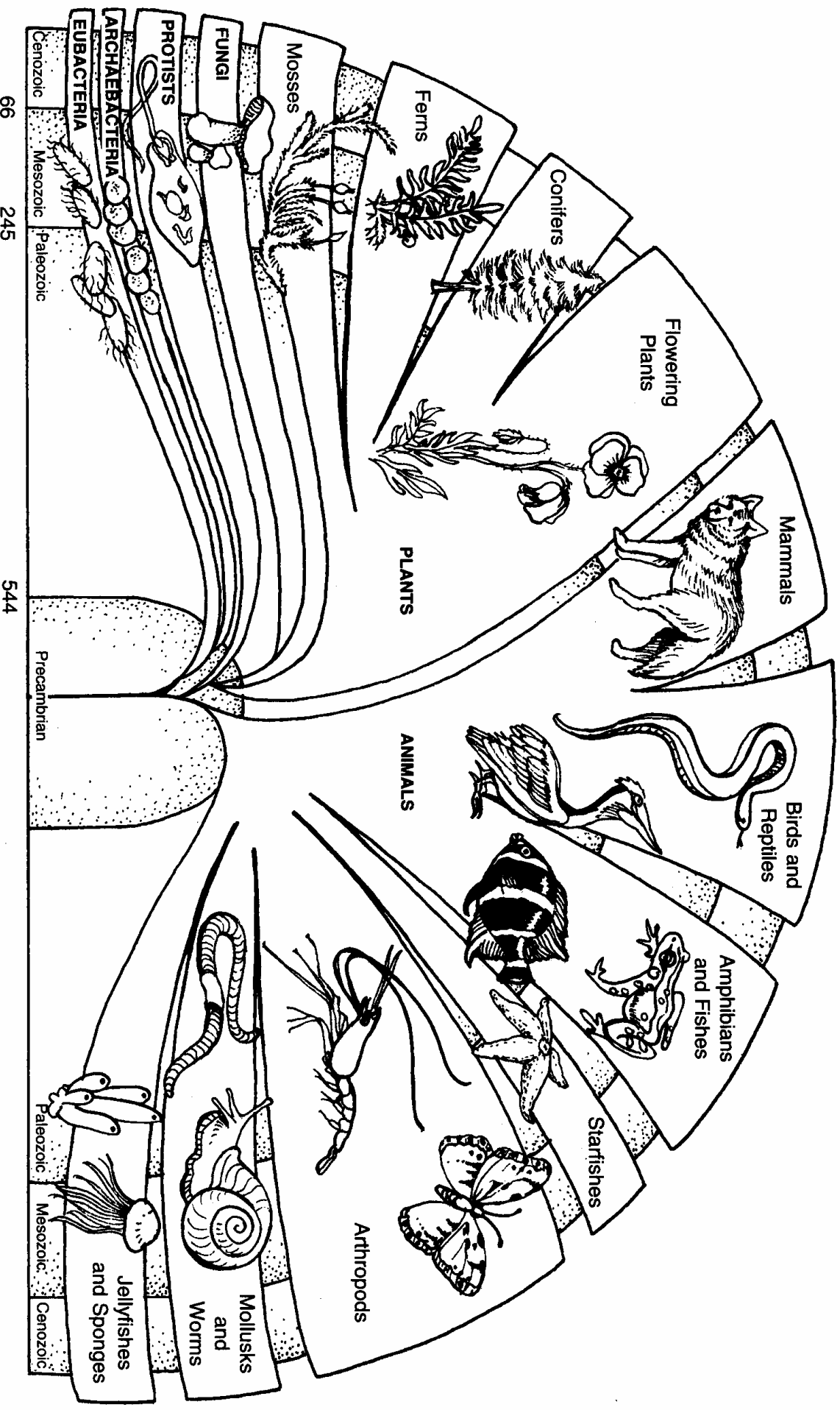
There are specific characteristics that scientists use to categorize all organisms into six kingdoms. The words listed below are used in this classification. Define the following terms in your own words:

- 1.) asexual reproduction- _____
- 2.) autotrophic - _____
- 3.) eukaryotic- _____
- 4.) heterotrophic- _____
- 5.) mobility- _____
- 6.) multicellular- _____
- 7.) prokaryotic- _____
- 8.) unicellular- _____

**Fill in the chart below, listing the distinctive characteristics of each kingdom.
(Hint: Begin with Chapter 18.3 of your Biology book for more information.)**

KINGDOM						
Cell Type (eukaryotic / prokaryotic)						
Nutrition (autotrophic / heterotrophic)						
Body Type (unicellular / multicellular)						
Cell Structure (cell wall / no cell wall)						
Mobility						
Special Characteristics						
Examples						

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Eras: shown in millions of years

1. To help you distinguish between the kingdoms in the diagram, color each kingdom a different color. This diagram shows multiple branches or divisions of the 6 kingdoms. The kingdoms are in **bold text**.
2. Which kingdom has the greatest number of species? _____
3. Which kingdom has the smallest number of species? _____
4. What characteristics do scientists use to distinguish between organisms in different kingdoms?

5. What is the cellular characteristic that distinguishes Kingdom Eubacteria and Archaeobacteria from members of the other four kingdoms? _____

6. What characteristics distinguish fungi from plants? _____

7. Which kingdoms include multicellular, heterotrophic organisms? _____

8. One way scientists could have classified organisms is to separate them into unicellular and multicellular organisms. Explain why this is *not* a useful classification system. _____

9. Not too long ago, archaeobacteria and eubacteria belonged to the same kingdom, the kingdom Monera. Their appearance is similar; both have similar shapes, are unicellular, and have nuclei that are not surrounded by a membrane. Explain why you think biologists have decided to divide the kingdom into two. _____

