Name _____ Class _____ Date _____

18.3 Building the Tree of Life

Lesson Objectives

- Name the six kingdoms of life as they are currently identified.
- Explain what the tree of life represents.

Lesson Summary

Changing Ideas About Kingdoms As biologists learned more about the natural world, they realized that Linnaeus's two kingdoms, Animalia and Plantae, did not represent all life.

- Researchers found that microorganisms were very different from plants and animals. They were placed in their own kingdom, called Protista.
- Then, yeast, molds, and mushrooms were separated from plants and placed in their own kingdom, called Fungi.
- Because bacteria lack nuclei, mitochondria, and chloroplasts, they were separated from Protista and placed in another new kingdom, called Monera.
- In the 1990s, kingdom Monera was divided into two kingdoms: Eubacteria and Archaebacteria. The six-kingdom system of classification includes the kingdoms Eubacteria, Archaebacteria, Protista, Fungi, Plantae, and Animalia.
- Genetic analysis revealed that two prokaryotic groups are even more different from each other, and from Eukaryotes, than previously thought. This discovery lead to the creation of a new taxon, called the domain. The **domain** is a larger, more inclusive category than a kingdom. The three domain system consists of: Bacteria, Archaea, and Eukarya.
- Domain Bacteria corresponds to the kingdom Eubacteria. Domain Archaea corresponds to the kingdom Archaebacteria. Domain Eukarya corresponds tokingdoms Fungi, Plantae, Animalia, and "Protista."
- Quotations are used for the old kingdom Protista to signify that it is not a valid clade.

The Tree of All Life The tree of life shows current hypotheses regarding evolutionary relationships among taxa within the three domains of life.

- The domain **Bacteria** includes unicellular organisms without a nucleus. They have cell walls containing a substance called peptidoglycan.
- The domain **Archaea** also includes unicellular organisms without a nucleus. These organisms have cell walls that do not contain peptidoglycan.
- The domain **Eukarya** includes the four remaining kingdoms: "Protista," Fungi, Plantae, and Animalia. All members of the domain Eukarya have cells with a nucleus.
  - Most members of the kingdom "Protista," are unicellular organisms. Some Protista are photosynthetic; others are heterotrophs.
  - Most members of the kingdom Fungi are multicellular, and all members of this kingdom are heterotrophs with cell walls containing chitin.
  - All members of the kingdom Plantae are multicellular and photosynthetic. Most plants cannot move about, and their cells have cell walls.
  - All members of the kingdom Animalia are multicellular heterotrophs. Most animals can move about, and their cells lack cell walls.

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James Jerome O'Brien

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