## Life on Earth

# Evolution of Eukaryotes to Multicellular Life

# Evolution of Eukaryotic Cells

- Several different specialized prokaryotes began to live together in a symbiotic relationship. These cell types took on specialized functions, and became organelles in a larger cell.
- A eukaryote is a cell that contains a separate nucleus to hold its DNA and RNA.

#### Multicellular Life

- Prokaryotes and Eukaryotes can both be multicellular.
- Multicellular life may have evolved several times throughout Earth's history.

# Why It Took So Long

- Evolutionary processes are generally slow
- No evolutionary advantage to being larger and more complex
- Harsh conditions during Earth's earlier years
  - Limited atmospheric oxygen
  - o Planet was too cold for complex life
  - Extinction due to global glaciations

#### Study Tip

To remember the difference between eukaryotes and prokaryotes, remember that you are a eukaryote. Humans are large, complex organisms whose eukaryotic cells have nuclei.



Eukaryotic cells formed as simpler, specialized prokaryotes began working together in cells.

# Concept Check

- What are the differences between eukaryotes and prokaryotes?
- How did one evolve into the other?
- · Why did complex life take so long to evolve?

# **Section 5 Multicellular Life Study Guide B**

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