

## 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.

## 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.

## 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
  - Planet was too cold for complex life
  - Extinction due to global glaciations



*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?

# 5 5 Multicellular Life Study Guide Key

**F Rizvi**



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In a global inundated with displays and the cacophony of quick connection, the profound energy and psychological resonance of verbal beauty usually fade into obscurity, eclipsed by the constant assault of noise and distractions. However, situated within the lyrical pages of **5 5 Multicellular Life Study Guide Key**, a interesting function of literary elegance that pulses with fresh feelings, lies an remarkable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, this magical opus manuals viewers on a psychological odyssey, delicately exposing the latent potential and profound impact embedded within the elaborate web of language. Within the heart-wrenching expanse of the evocative examination, we will embark upon an introspective exploration of the book is key subjects, dissect its charming publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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