

## 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

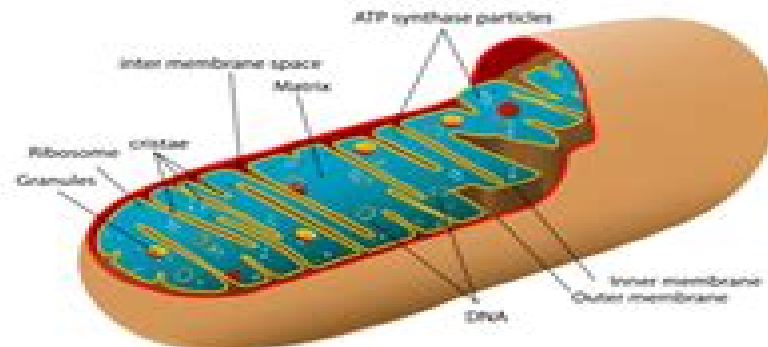
To remember the difference between eukaryotes and prokaryotes, remember that **you** are a **eukaryote**. Humans are large, complex organisms whose eukaryotic cells have nuclei.

## 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 Answers

**Dr. Sunita Bhagiya, ,Er. Meera Goyal**



## 5 5 Multicellular Life Study Guide Answers:

**Study Material Based On NCERT Science Class - IX** Dr. Sunita Bhagiya, ,Er. Meera Goyal,2022-02-16 1 Matter In Our Surrounding 2 Is Matter Around us Pure 3 Atoms And Molecules 4 Structure of the atoms 5 The Fundamental Unit of life 6 Tissues 7 Diversity in Living Organisms 8 Motion 9 Force and Laws of Motion 10 Gravitation 11 Work And Energy 12 Sound 13 Why Do we Fall Ill 14 Natural Resources 15 Improvement in Food resources Practical Work Project Work Cells Gr. 5-8 Angela Wagner,2007-09-01 Become a cell expert Our resource demonstrates why cells are the building blocks of life Start your breakdown by first identifying what a cell is Then compare single celled and multicellular organisms Introduce the concept of DNA before exploring the different parts of a cell From there take a look at the jobs of these parts Move on to cell reproduction by exploring mitosis and meiosis Dissect plant and animal cells to see how they work and how they are similar Look at the big picture by seeing how cells become organisms Finally learn how particles move through cell membranes with diffusion and osmosis Aligned to the Next Generation Science Standards and written to Bloom s Taxonomy and STEAM initiatives additional hands on experiments crossword word search comprehension quiz and answer key are also included

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