

Basic Biological Principles

Standards:

- Describe the characteristics of life shared by all organisms.
- Compare the cellular structures and their functions in prokaryotic and eukaryotic cells.

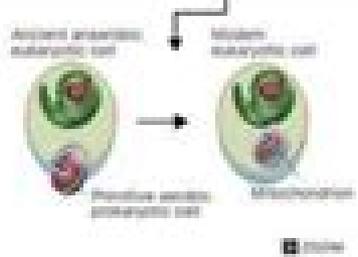
Cell Theory

- All living things are made of cells.
- Cells are the basic unit of structure and function in living things.
- Cells come from pre-existing cells.



Endosymbiosis

- A theorized process in which early eukaryotic cells were formed from simpler prokaryotes.
- Some organelles, such as mitochondria and chloroplasts, are believed to be evolved prokaryotes that now exist inside eukaryotes.



Earth is home to an incredible amount of biodiversity, however all living things (whether prokaryotic OR eukaryotic) share common characteristics:

- All living things are made of cells.
- All living things exhibit homeostasis (constant internal conditions).
- All living things require energy for metabolism (break down & synthesis of substances).
- All living things respond to their environment (stimuli).
- All living things grow and develop.
- All living things reproduce and pass on their DNA (genetic material) to their offspring.
- All living things adapt and evolve (changes in DNA over multiple generations).

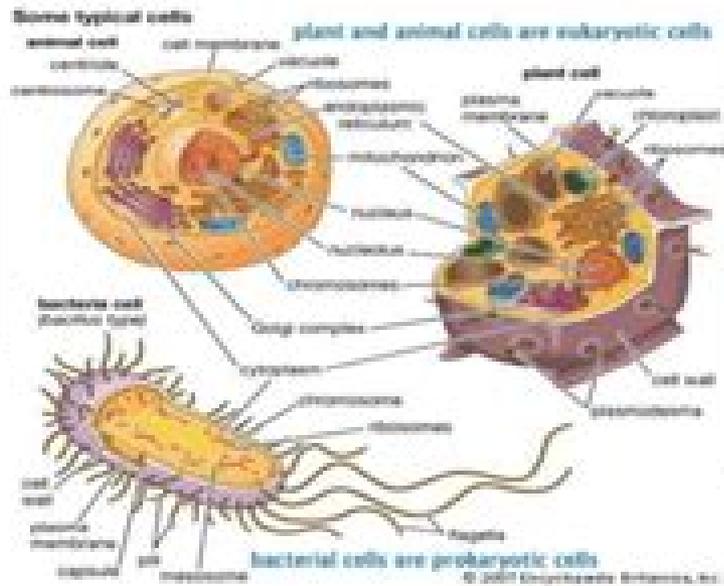
Cells are the smallest, most basic unit of life. There are two types of cells that make up all living things... eukaryotic cells and prokaryotic cells. All cells have common components:

- Cytoplasm
- DNA (Genetic material)
- Plasma (cell) membrane
- Ribosomes

Differences between prokaryotic and eukaryotic cells:

	Prokaryotic Cells	Eukaryotic Cells
# of cells:	single	single or multi
size:	usually extremely tiny	varies much less
organelles:	absent, not membrane-bound	many, membrane-bound
DNA:	single circular chromosome attached to cell wall	linear chromosomes in a nucleus floating in the center of the cell
examples:	bacteria	protists, fungi, plants, animals

Membrane-bound organelles are made of biological macromolecules, such as proteins, lipids, carbohydrates and nucleic acids. These organelles carry out specialized functions within cells. (See the chart of organelles on the next page.)



Animal Cells

- No cell walls
- No chloroplasts
- Multiple small vacuoles
- Contain lysosomes
- Contain centrioles

Plant Cells

- Contain cell wall
- Contain chloroplasts
- Large central vacuole
- No lysosomes
- No centrioles

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Basic Biology Study Guide

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Table of Contents Basic Biology Study Guide

1. Understanding the eBook Basic Biology Study Guide
 - The Rise of Digital Reading Basic Biology Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Biology Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Biology Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Biology Study Guide
 - Personalized Recommendations
 - Basic Biology Study Guide User Reviews and Ratings
 - Basic Biology Study Guide and Bestseller Lists
5. Accessing Basic Biology Study Guide Free and Paid eBooks
 - Basic Biology Study Guide Public Domain eBooks
 - Basic Biology Study Guide eBook Subscription Services
 - Basic Biology Study Guide Budget-Friendly Options

6. Navigating Basic Biology Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Biology Study Guide Compatibility with Devices
 - Basic Biology Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Basic Biology Study Guide
 - Highlighting and Note-Taking Basic Biology Study Guide
 - Interactive Elements Basic Biology Study Guide
8. Staying Engaged with Basic Biology Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Biology Study Guide
9. Balancing eBooks and Physical Books Basic Biology Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Basic Biology Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Biology Study Guide
 - Setting Reading Goals Basic Biology Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Biology Study Guide
 - Fact-Checking eBook Content of Basic Biology Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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