

**Quick Study ACADEMIC**

# BIOLOGY

**BASIC CONCEPTS**

1. Biology is the study of life.
2. The characteristics of life are organization, organization, growth, development, responsiveness, and energy requirements.
3. The scientific method flows through a cycle: (1) Observe, (2) Hypothesize, (3) Test, (4) Analyze, (5) Conclude.
4. Based on the observation of phenomena in scientific experiments that can both describe and predict a certain event that can be tested.
5. Used to test a hypothesis in a certain time and space and determine its validity.

**EVOLUTION**

Evolution is the change that all organisms and related to each other by common ancestry, it is the scientific theory in biology.

1. Natural selection is a mechanism, described by Charles Darwin, that explains the survival of the fittest for the majority of organisms found on the earth or have offspring that adapted to the conditions in which they live.
2. Individuals naturally reproduce, creating more offspring than the environment can sustain.
3. There is a struggle for survival (competition) among individuals for their resources based on genetic differences.
4. Eventually, those with suitable skills reproduce, the others die or cannot to reproduce, the best of the organisms are passed down to the next generation.
5. There is a change in existing offspring and changing the population's features.

**Cell Theory**

All living things are composed of cells and arise from cells.

1. Cells are the smallest units of structure and function in all living organisms.
2. All organisms are made of cells.
3. Cells are the basic units of structure and function in all living organisms.

**Prokaryotic Cells**

Prokaryotes have a simple cellular organization with no nucleus or other membrane-bound organelles.

**Eukaryotic Cells**

Eukaryotes have a complex cellular organization with membrane-bound organelles. Eukaryotic cells are characterized by the following:

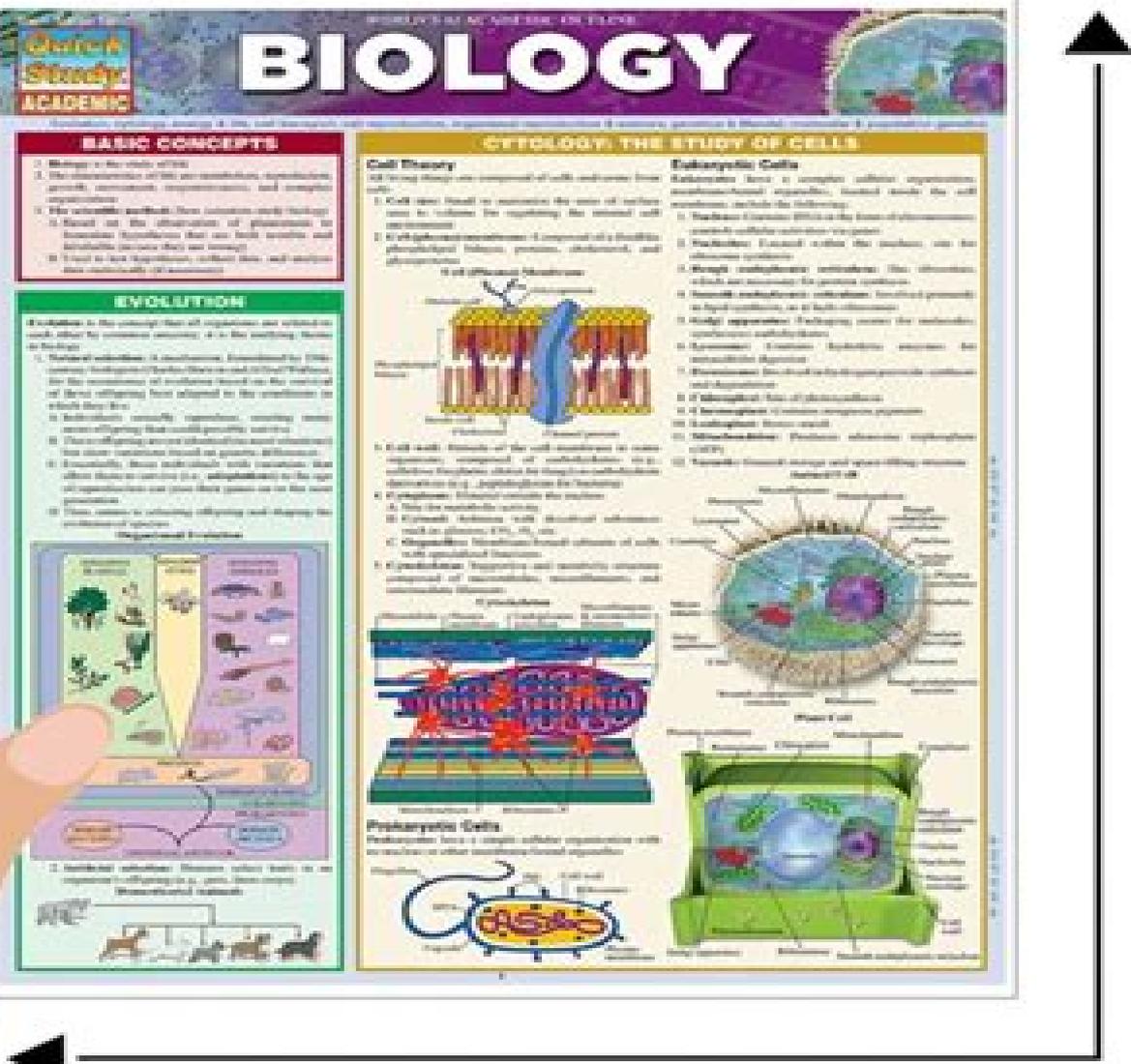
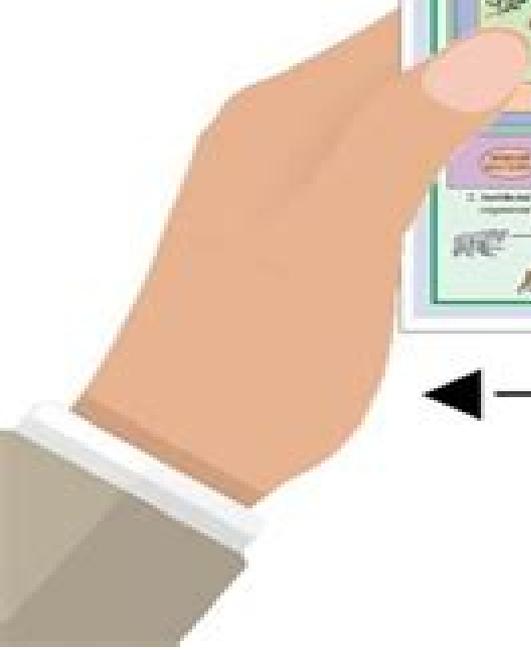
1. Presence of a nucleus containing the cell's genetic material (DNA).
2. Presence of a cytoskeleton within the cell, which is the internal skeleton.
3. Presence of a Golgi apparatus, which is the cell's internal transport system.
4. Presence of a cell membrane, which is the cell's outer boundary.
5. Presence of a cell wall, which is the cell's outer boundary.
6. Presence of a nucleus, which is the cell's control center.
7. Presence of a cytoskeleton, which is the cell's internal skeleton.
8. Presence of a Golgi apparatus, which is the cell's internal transport system.
9. Presence of a cell membrane, which is the cell's outer boundary.
10. Presence of a cell wall, which is the cell's outer boundary.

**Plant Cell**

**Animal Cell**

**Prokaryotic Cells**

Prokaryotes have a simple cellular organization with no nucleus or other membrane-bound organelles.



8.5 in x 11 in  
21.6cm x 28cm

# Biology 10study Guide

**John Peter Wynne**



## **Biology 10study Guide:**

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