

Name \_\_\_\_\_

## KEYSTONE BIOLOGY STUDY GUIDE

### Keystone Biology Review - Module 1 – CELLS AND CELL PROCESSES

All living things have the following characteristics:

- They are all made of cells: either one cell (**unicellular**) or many cells (**multicellular**).
- They reproduce **sexually** (using 2 parents) or **asexually** (1 parent).
- They perform **respiration** to make energy available to the cell.
- They carry on **metabolic** activities (chemical reactions).
  - This includes: **Synthesizing** larger compounds
  - Digesting** larger compounds to smaller
- They grow and develop
- They respond to environmental stimuli and maintain homeostasis (constant internal condition despite external conditions)

There are 2 Major Cell Types: **Prokaryotes** and **Eukaryotes**.

Differences are shown below:

Prokaryotes	Eukaryotes
Simpler; Unicellular Smaller No true nucleus because there is no membrane around their DNA No complex organelles Includes Bacteria	More complex; Multicellular; Cell specialization Larger A membrane around their DNA (A Nucleus!) Complex organelles ( Mitochondria, Endoplasmic reticulum, Golgi, Chloroplasts Includes Animals, Plants, Fungi

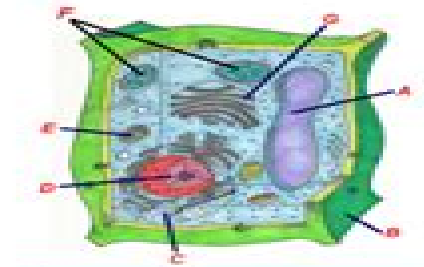
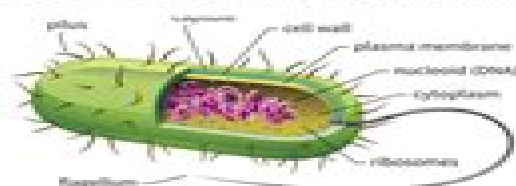
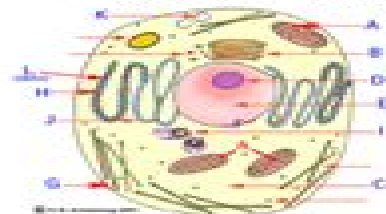
#### Similarities between Prokaryotes and Eukaryotes

Both have:

- Cell membrane/plasma membrane – semi-permeable and regulates what enters and exits the cell
- Ribosomes** – make proteins for the cell
- Cytoplasm** – site of various chemical reactions

What are some complex organelles in Eukaryotic cells?

- **Mitochondria** – makes energy (ATP) for the cell using the process of cellular respiration
- **Chloroplasts** – make sugar and oxygen using the process of photosynthesis.
- **Rough Endoplasmic reticulum** – transports proteins
- **Smooth Endoplasmic reticulum** – makes lipids.
- **Golgi Complex** – modifies and packages proteins
- **Nucleus** – control center of the cell, houses the cell's DNA
- **Lysosomes** – "suicide sac of the cell" contains strong digestive enzymes.



Living things are organized in the following way:



All cells and organs have a specific shape because they do a specific function.

Example: Alveoli are structures in the lungs. They are little sacs with lots of little spaces.

# Keystone Biology Study Guide

**S Ben Porath**



## **Keystone Biology Study Guide:**

The Top Books of the Year Keystone Biology Study Guide The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Keystone Biology Study Guide : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Keystone Biology Study Guide : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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