

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

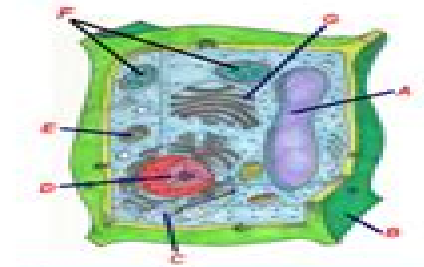
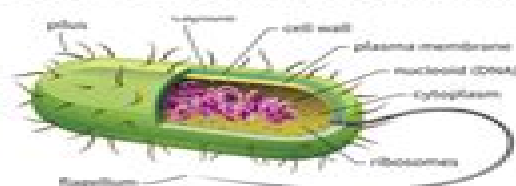
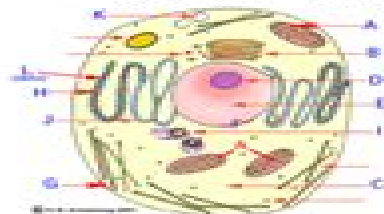
Similarities between Prokaryotes and Eukaryotes

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.

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