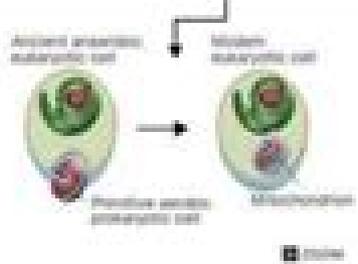# Basic Biological Principles

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

Kingdoms

PLANTAE (Multicellular, eukaryotic)

ANIMALIA (Multicellular, eukaryotic)

FUNGI (Multicellular, eukaryotic)

PROTISTA (Eukaryotic, unicellular and multicellular)

EUBACTERIA (unicellular, prokaryotic)

ARCHAEBACTERIA (unicellular, prokaryotic)

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.

Ancient anaerobic eukaryotic cell

Modern eukaryotic cell

Primitive aerobic prokaryotic cell

Mitochondrion

Earth is home to an incredible amount of biodiversity, however all living things (whether prokaryotic OR eukaryotic) share common characteristics:
1. All living things are made of cells.
2. All living things exhibit homeostasis (constant internal conditions).
3. All living things require energy for metabolism (break down & synthesis of substances).
4. All living things respond to their environment (stimuli).
5. All living things grow and develop.
6. All living things reproduce and pass on their DNA (genetic material) to their offspring.
7. All living things adapt and evolve (changes in DNA over multiple

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:	really extremely tiny	extremely tiny
organelles:	ribosomes, 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.)

Some typical cells

animal cell: centriole, centrosome, cell membrane, vacuole, ribosomes, endoplasmic reticulum, plasma membrane, mitochondrion, nucleus, nucleolus, Golgi complex, cytoplasm, chromosome, ribosomes

plant cell: plasma membrane, vacuole, chloroplast, ribosomes, cell wall, plasmodesma

bacteria cell (bacillus type): cell wall, plasma membrane, cell, mesosome, capsule, chromosome, ribosomes, flagella

plant and animal cells are eukaryotic cells

bacterial cells are prokaryotic cells

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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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