

Cells

Cell - the basic unit of structure & function of life.

Prokaryotic - a cell with no nucleus

Eukaryotic - a cell with a nucleus

Unicellular - an organism made up of only one cell

~~xxxxx~~ multicellular - an organism made up of many cells

Cell Parts

Organelles - structures in the cell that carry out the activities that keep the cell alive

Cell Wall - PLANT only - ~~outer~~ outer barrier provides extra support for the cell and gives it a shape
* made mostly of cellulose (fiber)

Cell Membrane - encloses the cell, acts like a gate keeper
↳ allows some materials to pass through, but not others

Cytoplasm - a gel-like fluid, takes up most of the space inside the cell
* mostly water

Nucleus - located near the center of the cell
↳ made of Chromosomes - contain genetic information
↳ used to direct the cell's activity
↳ made of DNA

Nuclear Membrane - surrounds and protects the cell

Nucleolus - inside the nucleus, make ribosomes

Vacuoles - fluid filled structure, temporarily store different substances needed by the cell

Mitochondria - use oxygen to transform the energy in food to a form the cell can use
* Powerhouse of cell

Endoplasmic Reticulum - internal delivery system for cell

Ribosomes - produce proteins and lipids for the cell

Golgi Body - package products made by the cell & transport them outside the cell.

Chloroplasts - PLANT only - food-making
Structure, contains green pigment

Chlorophyll - Captures the energy of sunlight
and uses it to make food - PLANT only