

Cell Theory has 3 Parts

1. All living things are made of cells.

2. Cells are the basic unit for structure + function.

3. All cells arise from other cells

**Cell Membrane only allows
select substances through.**

**That is called being Semi-
permeable**

Strainer
gauge
filter

Organelle-

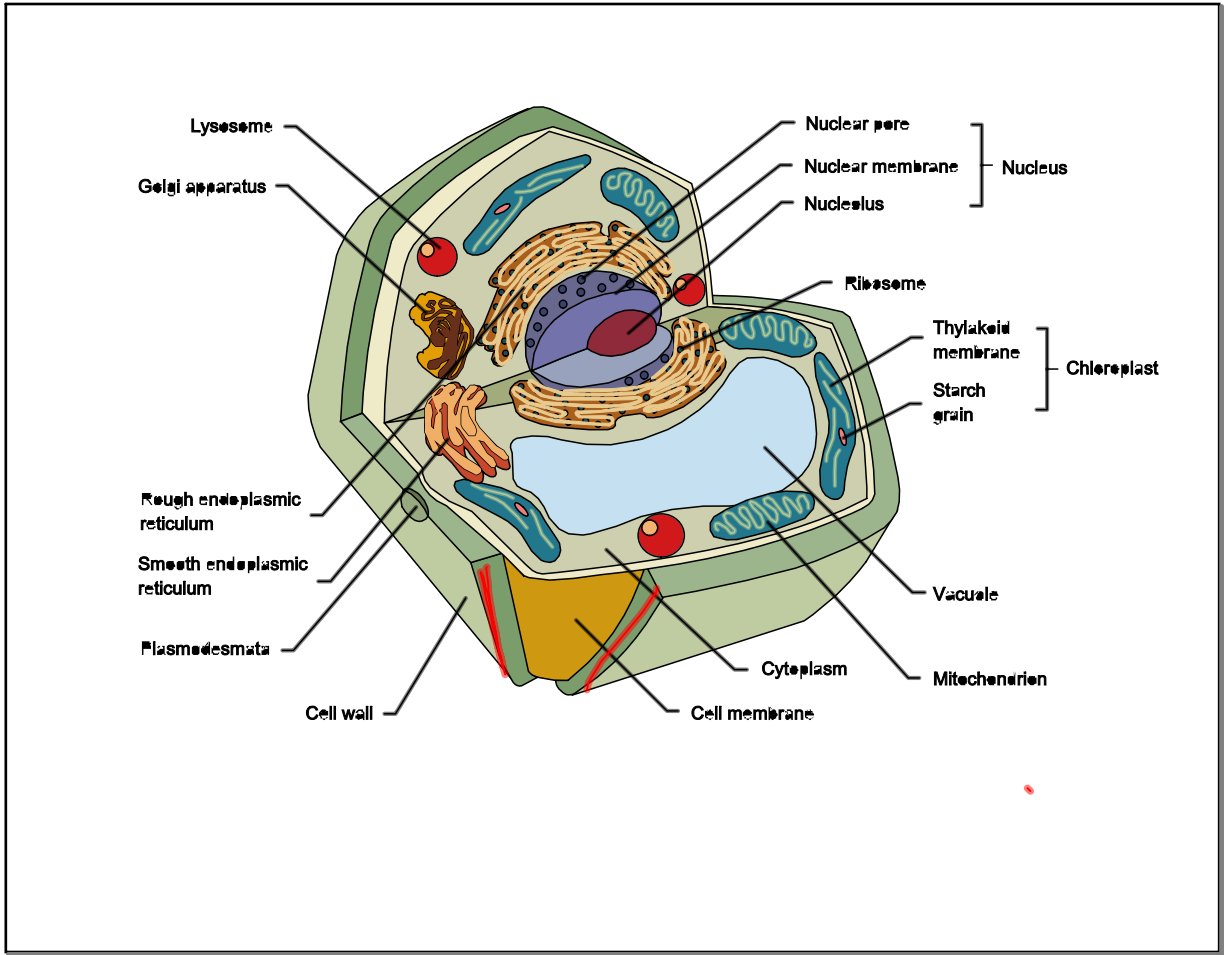
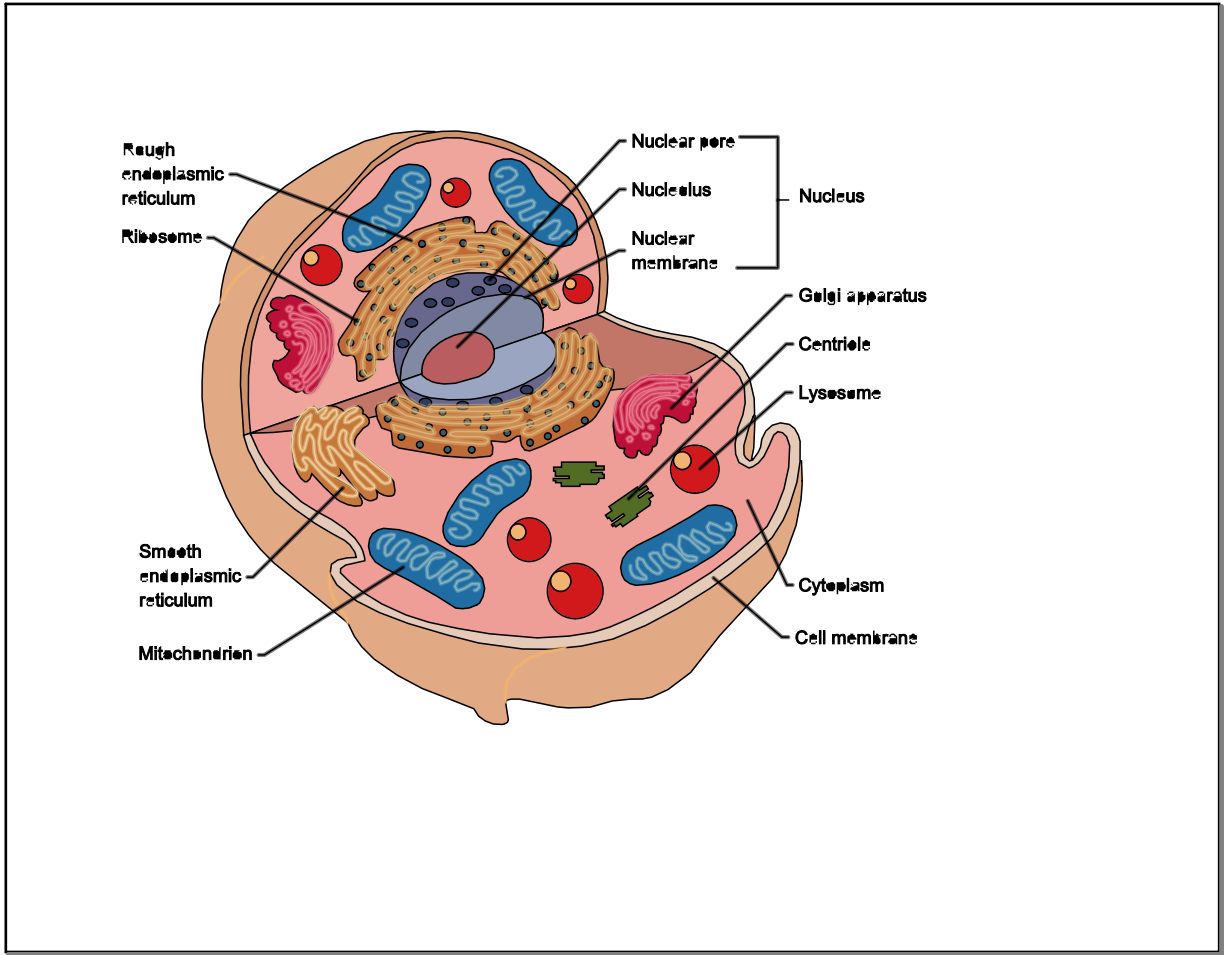
Cells have
common features
called
organelles

Prokaryotes-

Single celled
organism
lack a
nucleus

Eukaryotes-

cells w/
a nucleus

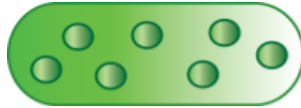


Plant Cells have-



cell wall

chloroplast



Nucleus

Function

Control center
"brain", holds DNA

Appearance

egg yolk

Location

inside the cell

Nucleolus

Function

makes ribosomes
+ RNA

Appearance

egg yolk inside
an egg yolk

Location

inside nucleus

Cell Wall

Function

Structure
+ support

Appearance

Orange peel

Location

Outside of a
Plant cell

Cell Membrane

Function

lets things into
+ outside of cell

Appearance

egg shell

Location

animal - outside
plant - under cell wall

Cytoplasm

Function

holds stuff

Appearance

jello

Location

inside the cell

Ribosomes

Function

translate RNA
make protein

Appearance

Candy buttons
mini m&ms
in the cytoplasm

Location

Chromatin

Function

the form of
DNA when not
dividing

Appearance

ramen noodles

Location

in the nucleus

Endoplasmic

Reticulum

"ER"

Function

transports within
cell

Appearance

ribbon candy

Location

inside the Cytoplasm

Golgi Complex

Function

packages, process
distributes UPS

Appearance

ribbon candy

Location

in the Cytoplasm

Lysosome

Function

breaks down
& digest damaged
parts

Appearance

Candy dots, mini
m+m

Location

in the cytoplasm

Vacuole

Function

Store H_2O

Appearance

wax bottle
Pond

Location

in the cytoplasm

Mitochondria

Function

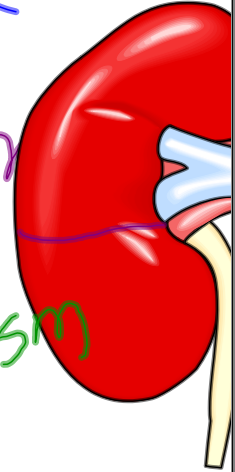
makes energy
"powerhouse"

Appearance

Kidney bean

Location

in the cytoplasm



Chloroplast

Function

make food

Appearance

pea pod

Location

in the cytoplasm

Cilia

Function

Movement

Appearance

tiny hairs, kiwi

Outside the cell

Location

Flagella

Function

Movement

Appearance

a tail
angel hair

outside

Location