

Cell
Theory
3 parts

Cell Theory

All living
things are
made of
cells.

Oct 1-10:08 AM

Cells are
the basic
unit of structure
& function.

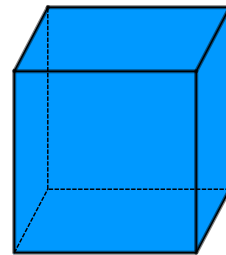
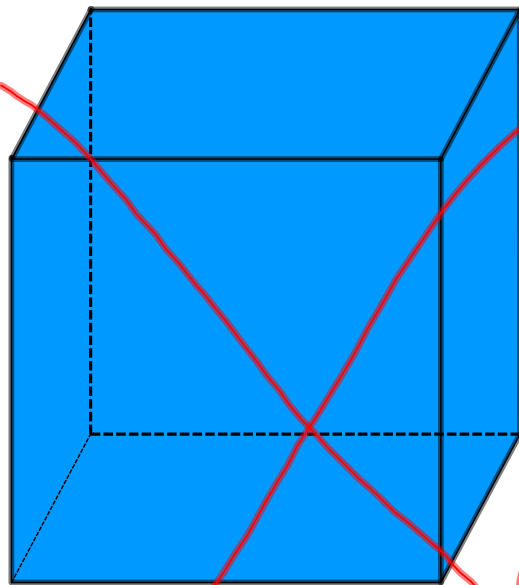
Oct 1-10:09 AM

All cells
arise from
other cells.

Oct 1-10:11 AM

All cells
are small.
Why?

Oct 1-10:12 AM



Surface
area to
volume ratio

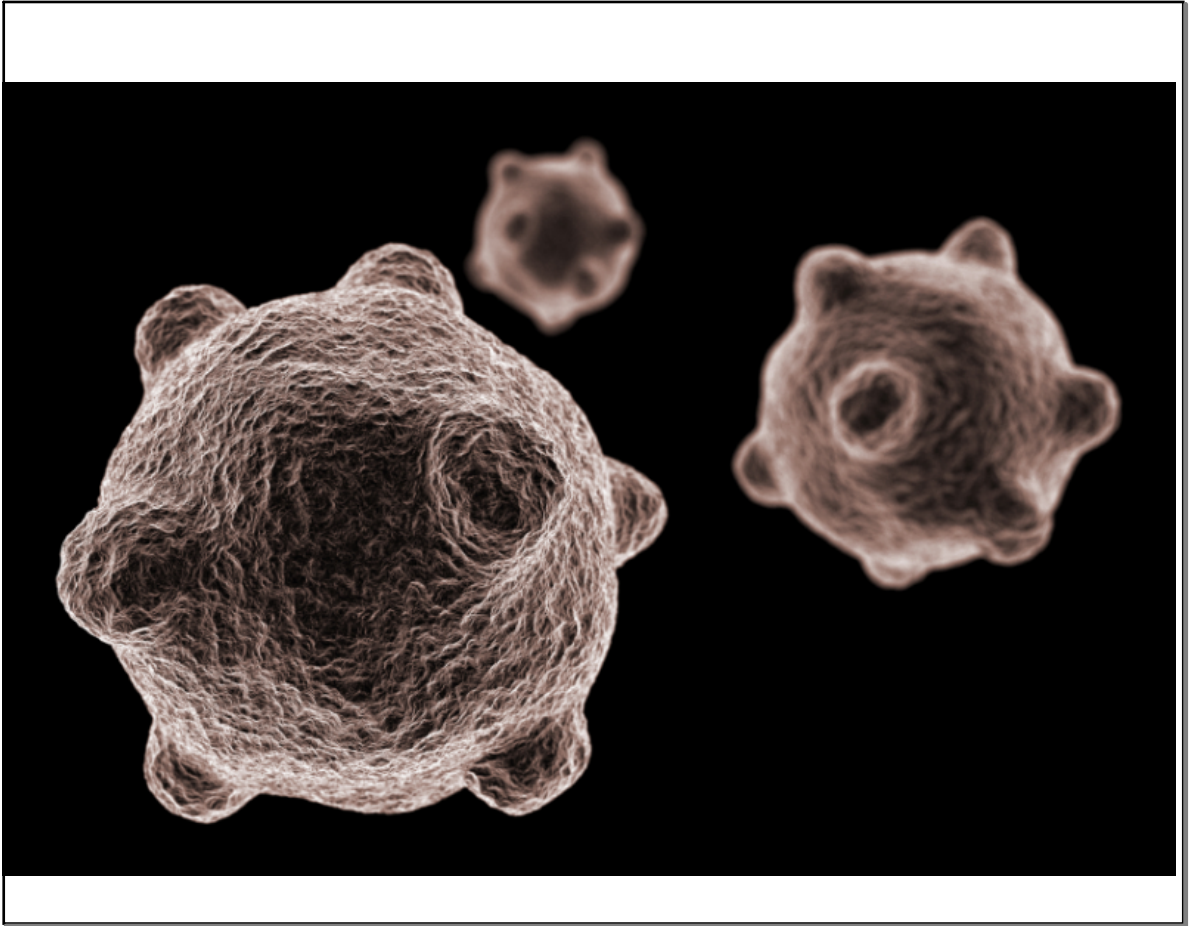
Oct 10-8:18 AM

Cells have
Common
features
Called Organelles.

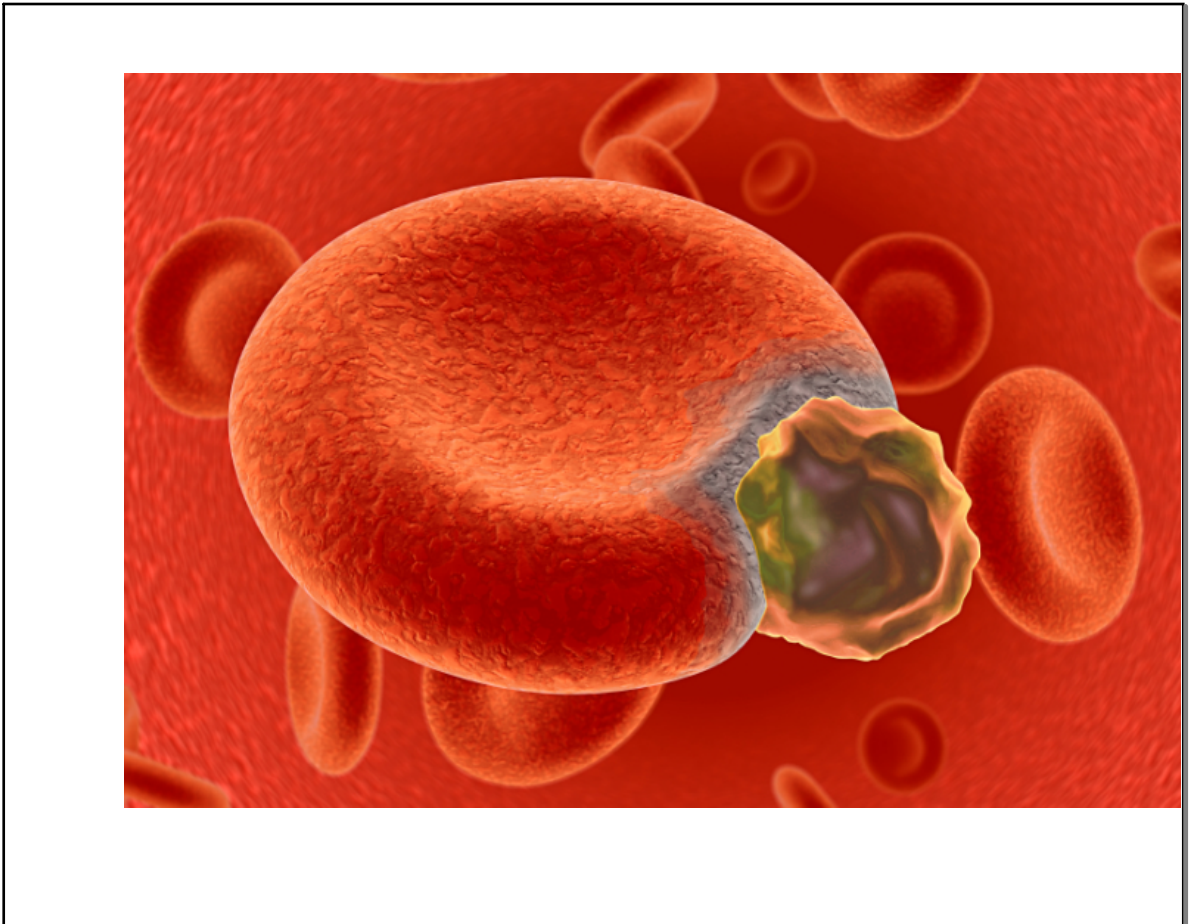
Organelle

Prokaryotes
- Single celled
Organism
- lack a nucleus
Bacteria

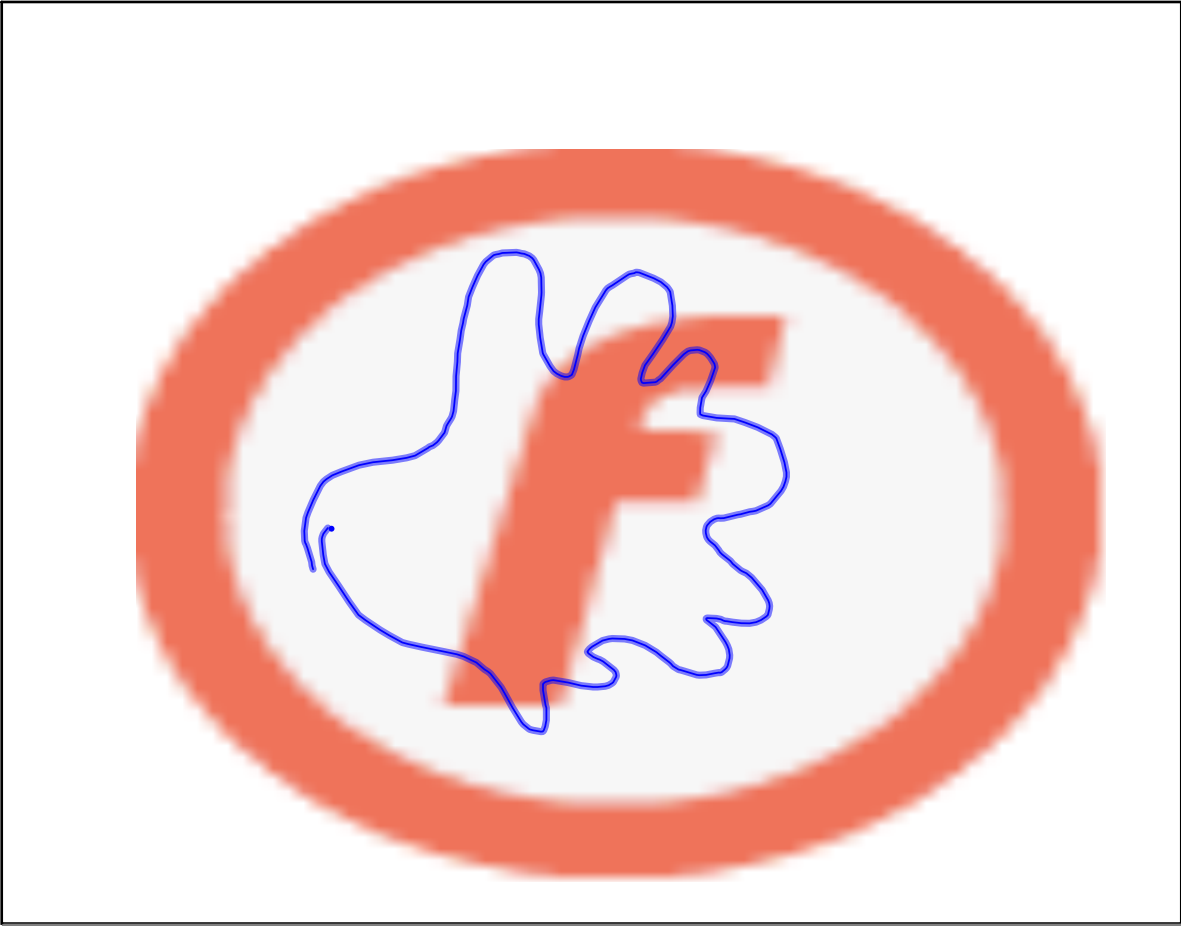
Prokaryotes



Oct 10-8:24 AM



Oct 10-8:28 AM



Oct 10-8:28 AM



Oct 10-8:29 AM



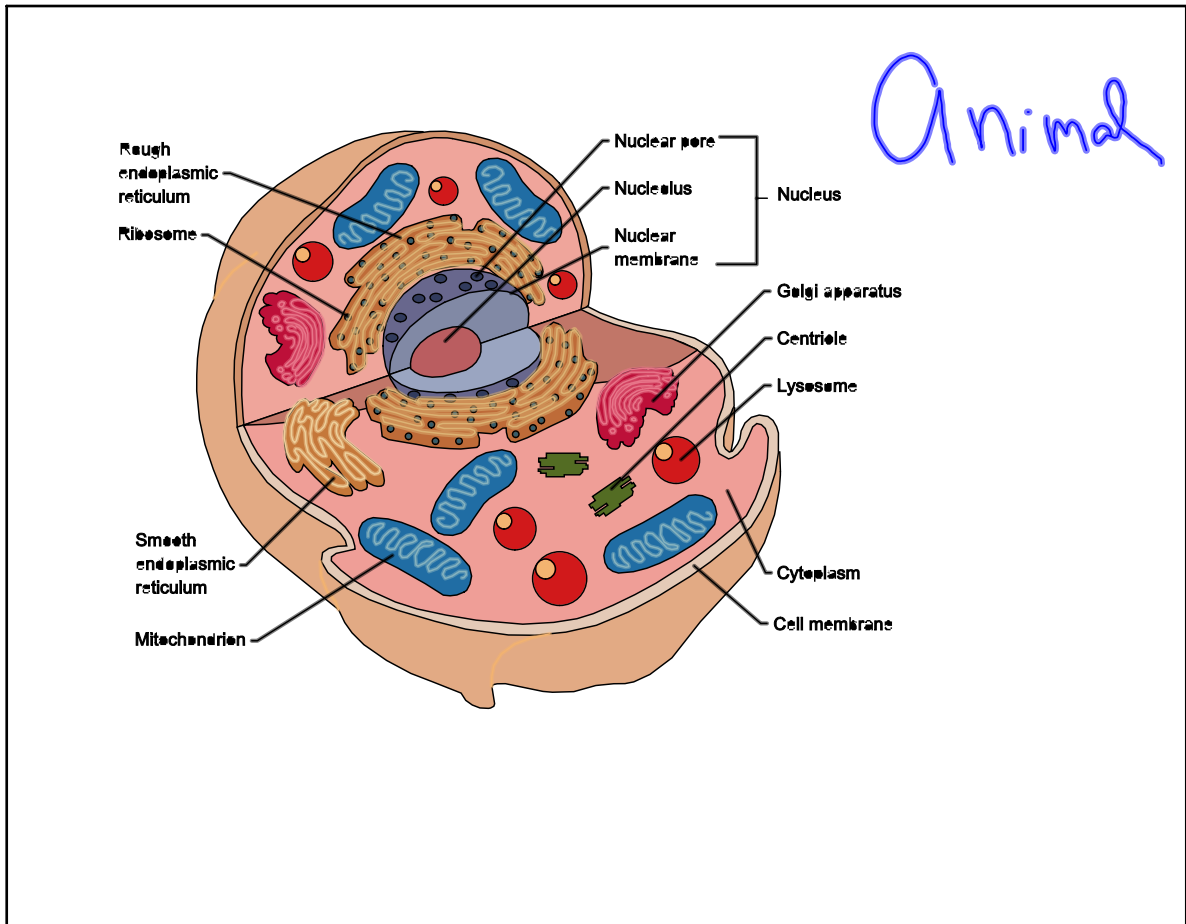
Oct 10-8:30 AM

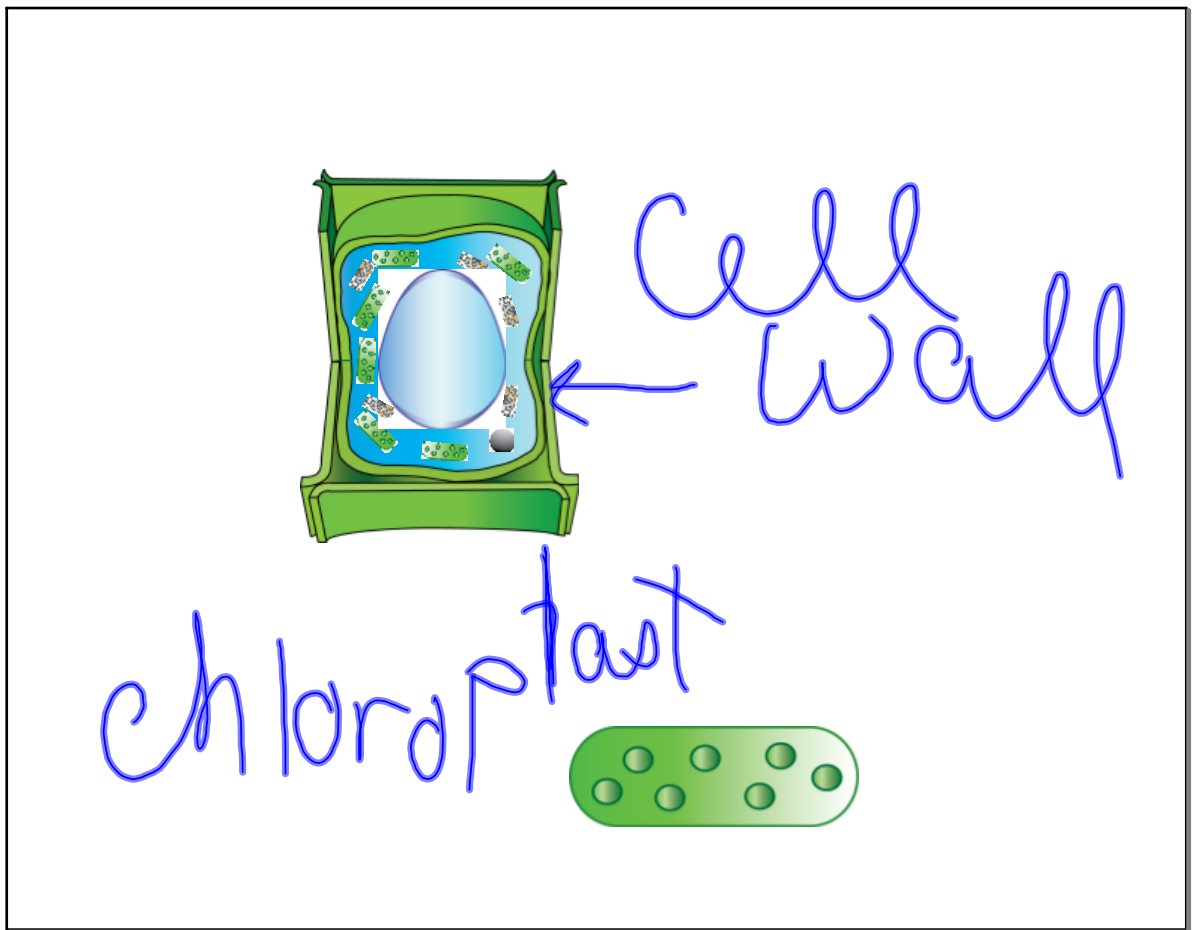
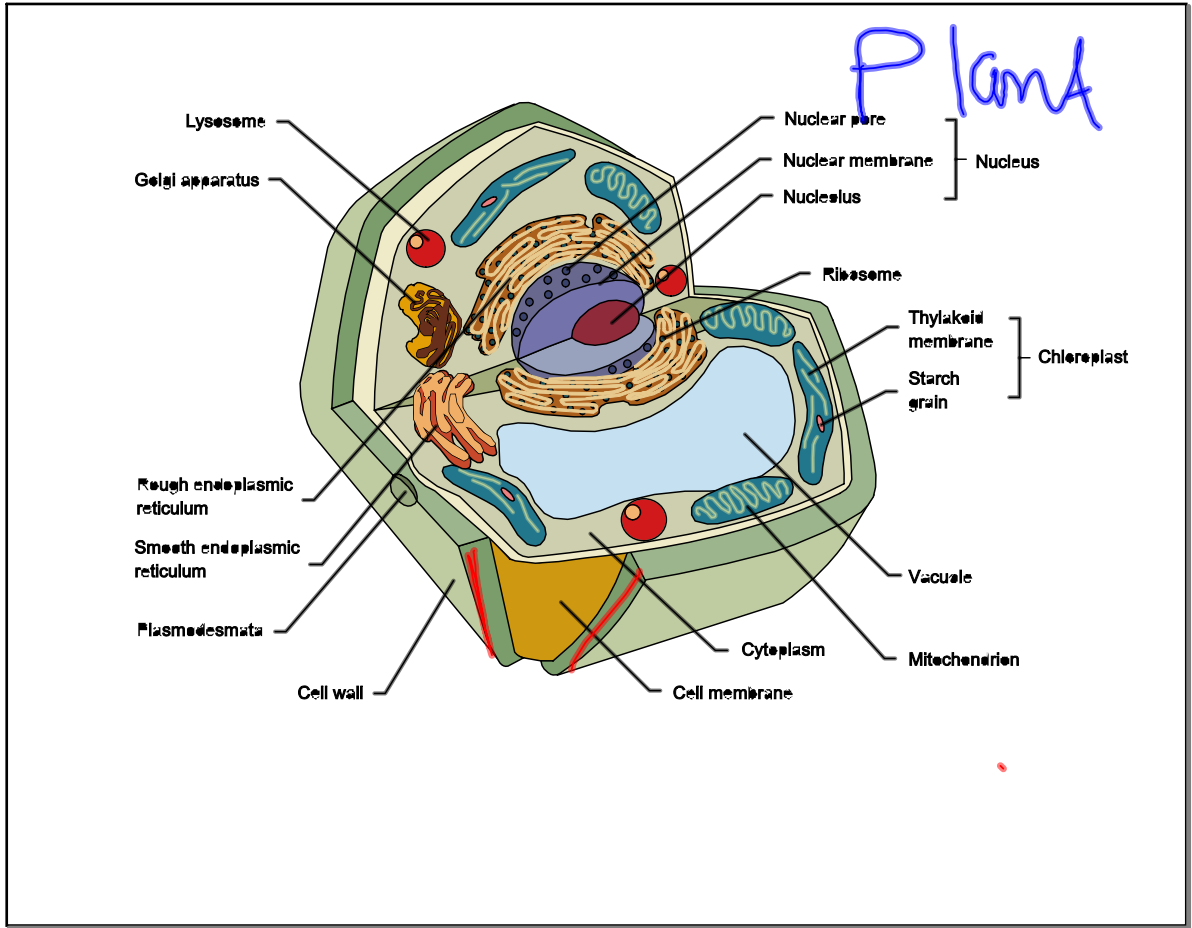


Oct 10-8:30 AM

Eukaryote
cells w/
a nucleus

Eukaryote





Nucleus

Control center,
holds DNA

yolk of an egg
inside the cell

Oct 3-10:08 AM

Nucleolus

makes ribosomes,
RNA

egg yolk in egg
yolk, gobstopper
inside the nucleus

Oct 3-10:10 AM

Cell Wall

Structure & Support

peel of an orange

outside of PLANT
cell

Oct 3-10:12 AM

Cell Membrane

let things in &
out

egg shell ^{animal}
outside the cell

Oct 3-10:14 AM

Cytoplasm
holds stuff
jello
inside the cell

Oct 3-10:17 AM

Ribosomes
translate DNA
make protein
button candy
mini m&ms
in the cytoplasm

Oct 3-10:19 AM

Chromatin
DNA when not
dividing
randomly
inside the nucleus

Oct 3-10:22 AM

Endoplasmic ER
Reticulum

transports within
the cell

ribbon candy
in the cytoplasm

Oct 3-10:25 AM

Golgi Complex

packages, processes,
distributes UPS

ribbon candy
in the cytoplasm

Oct 6-9:53 AM

Lysosome

break down + digest
damaged parts

mini m+m

button candy

in the cytoplasm

Oct 6-9:55 AM

Vacuole

Store H_2O

Candy bottles
pond

in the cytoplasm

Oct 6-9:57 AM

Mitochondria

make energy
powerhouse

Kidney beans

in the cytoplasm

Oct 6-9:59 AM

Chloroplast
make food
pea pod
in the cytoplasm
PLANT

Oct 6-10:03 AM

Cilia
movement
hair on kiwi
outside the cell

Oct 6-10:05 AM

Flagella
movement
tail, angel
hair
Outside the
cell

Oct 6-10:06 AM