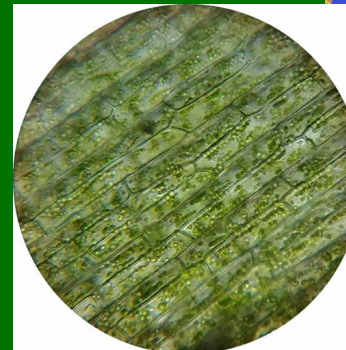
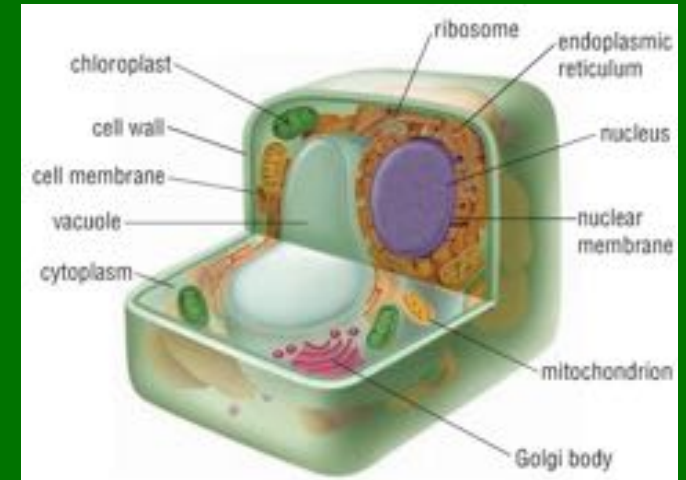


Plant Cells

- Function of Cells
- Animal vs. Plant Cells
- Common Cell Organelles
- Plant Specific Organelles
 - Large Vacuoles
 - Cell Wall
 - Chloroplasts
- Photosynthesis



TeachWithFergy

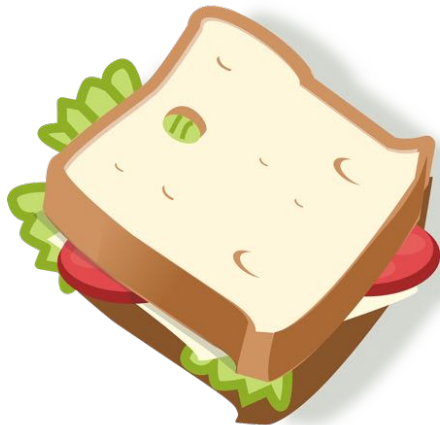
Preview File

Please enjoy this preview of your Student Version of the lesson. I've created this PDF for ease of viewing and to decrease the file size but of course, your lesson will be in PowerPoint format.

- Some slides appear blank because they have been removed.
- Student versions have portions of the text removed which is given in the teacher version and appear as _____
- Other slides may have on them, this represents writing that has been removed.

The Function of Cells

- Cells work together to keep every living thing alive
- Get rid of wastes
- Repair and grow
- _____



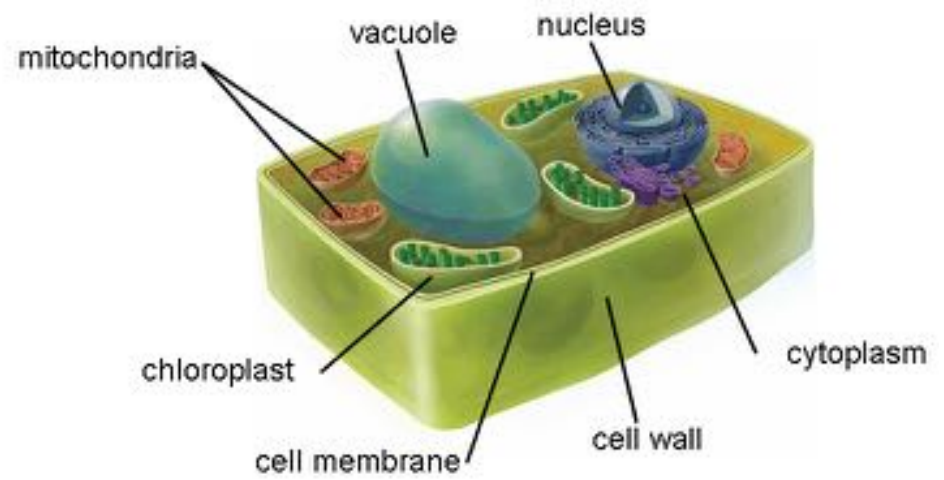
Animal Cells

- Animal cells are eukaryotic cells (they have a nucleus)
- Animal cells are found _____



Plant Cells

- Plant cells are also eukaryotic cells
- _____
- They are similar in many ways to animal cells with a few key structural and functional differences

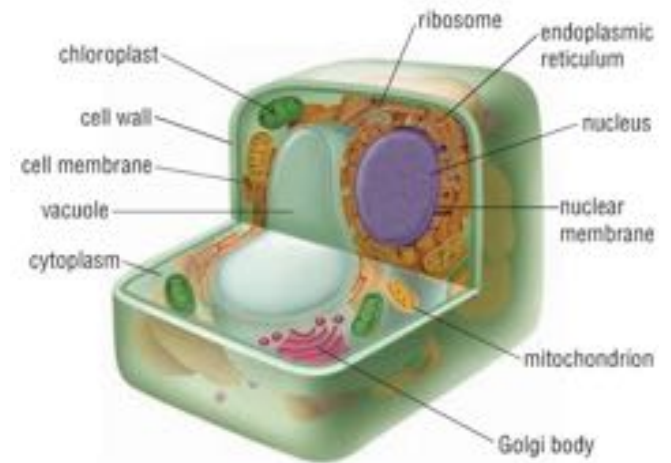


Animal vs. Plant Cells

- _____
- Plant cells have a constant square/rectangular shape. Animal cells are irregularly shaped
- Most organelles are found in both but plants also

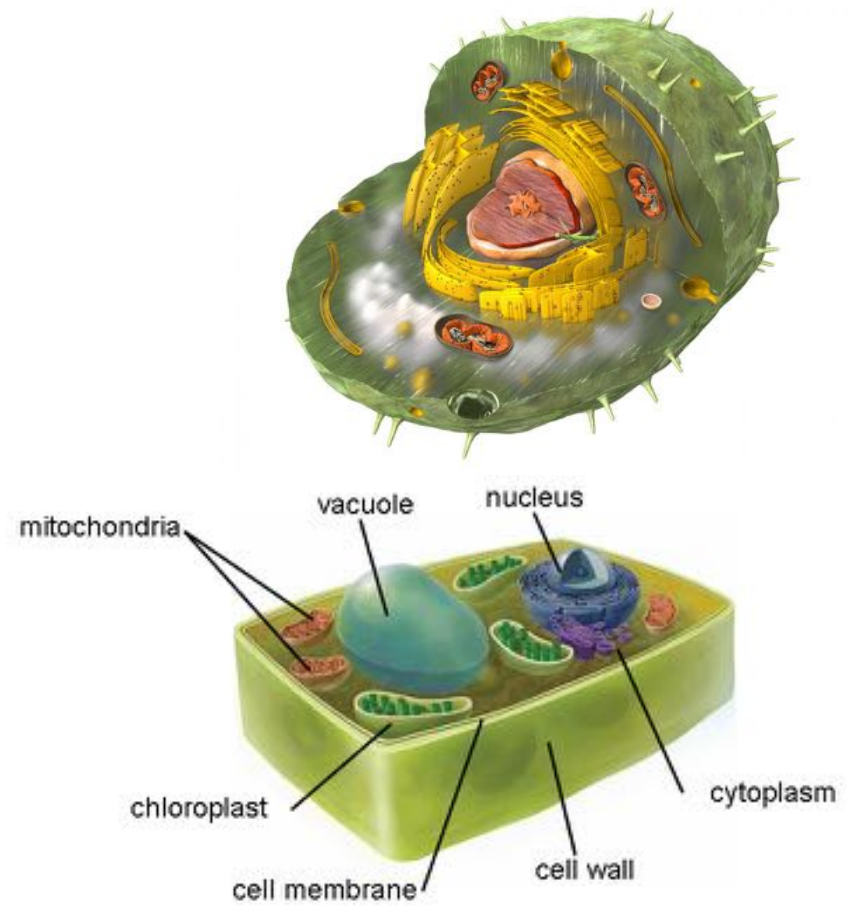


**IN SLIDESHOW MODE, CLICK
THE IMAGE TO SEE HOW
VIDEOS ARE EMBEDDED
INTO YOUR LESSONS**



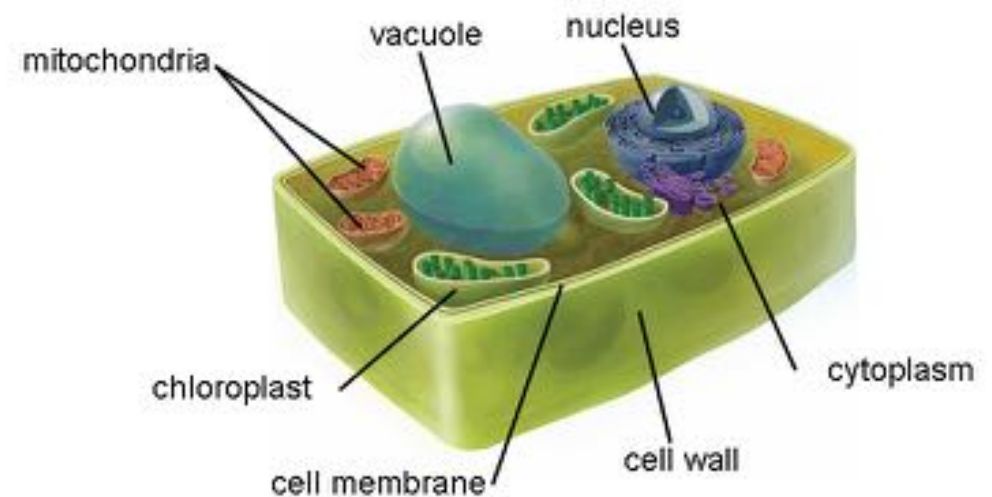
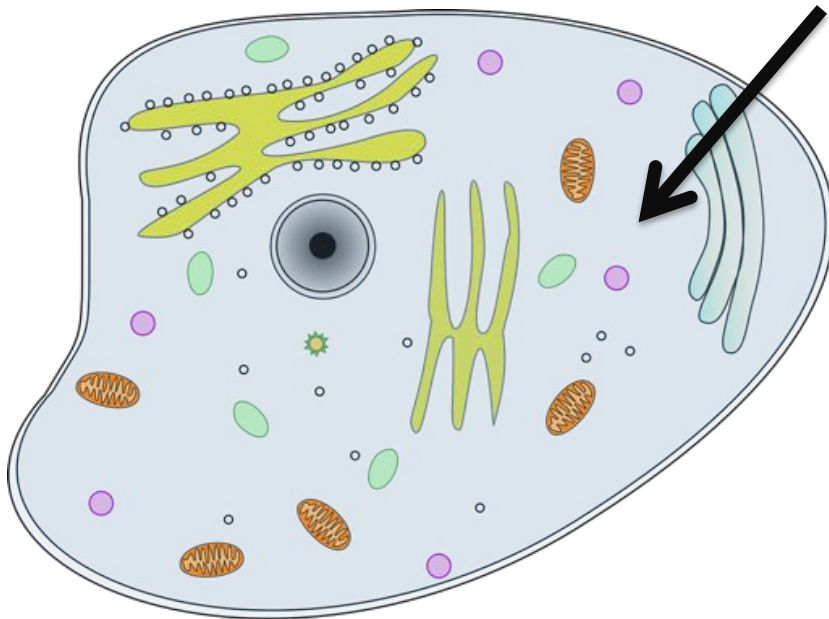
Main Cell Organelles Found In Both Animal and Plant Cells

- Cytoplasm → Not an organelle, suspends the organelles
- Cell Membrane
-
-
- Endoplasmic Reticulum (ER)
- Golgi Bodies
- Vacuoles



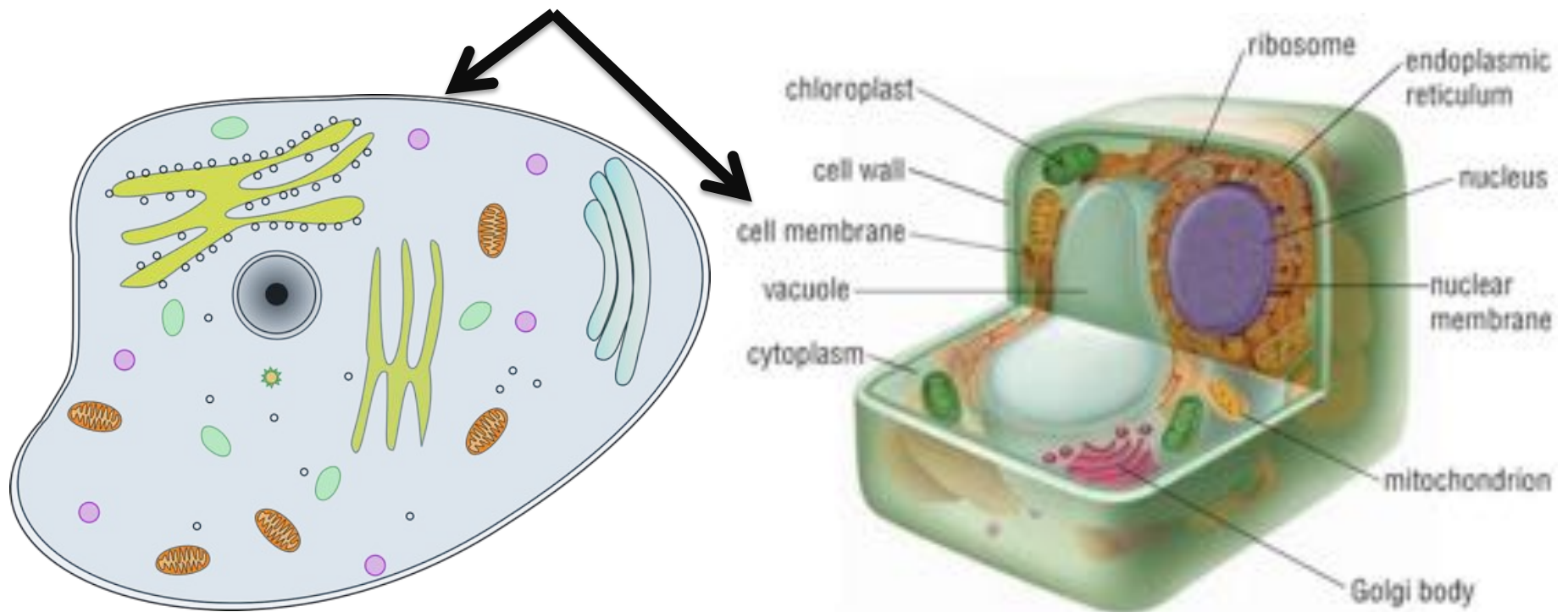
Cytoplasm

- Gel-like substance that holds the cell organelles together
-
-



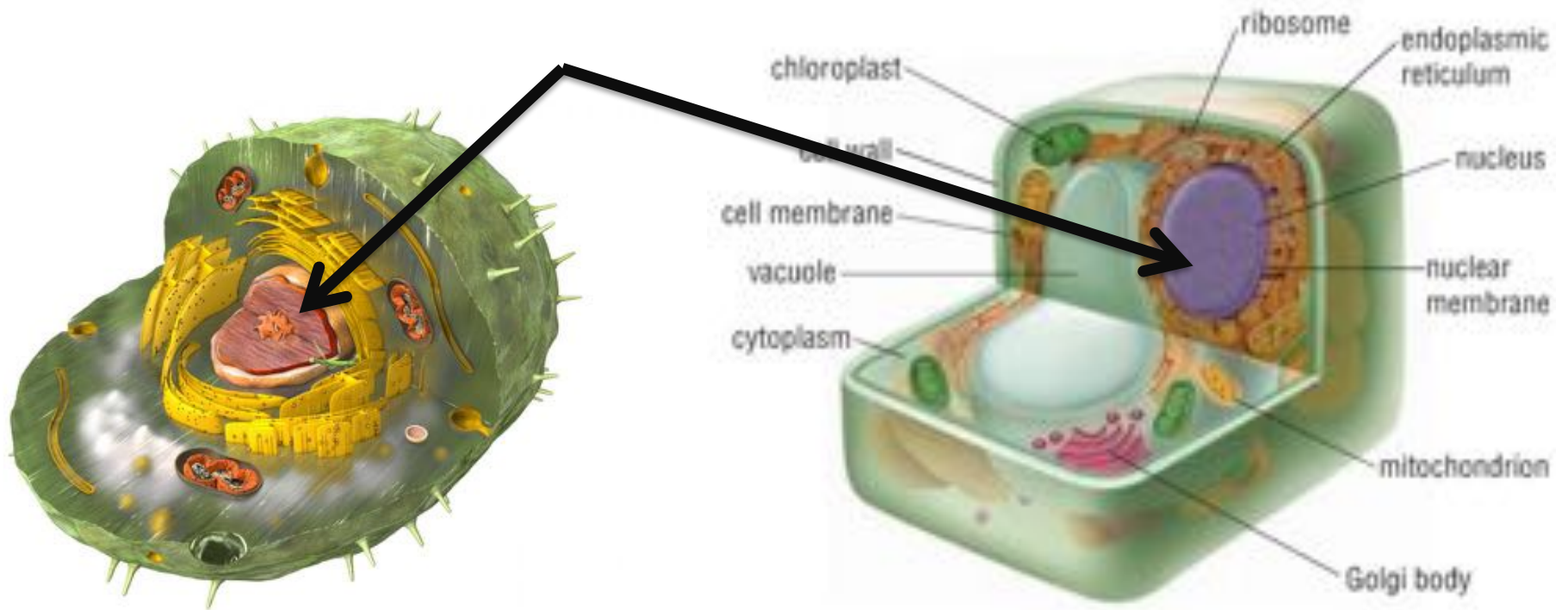
Cell Membrane

- The double-layer “skin” of the cell
- Keeps the cell organelles together
- Controls what comes into and leaves the cell



Nucleus

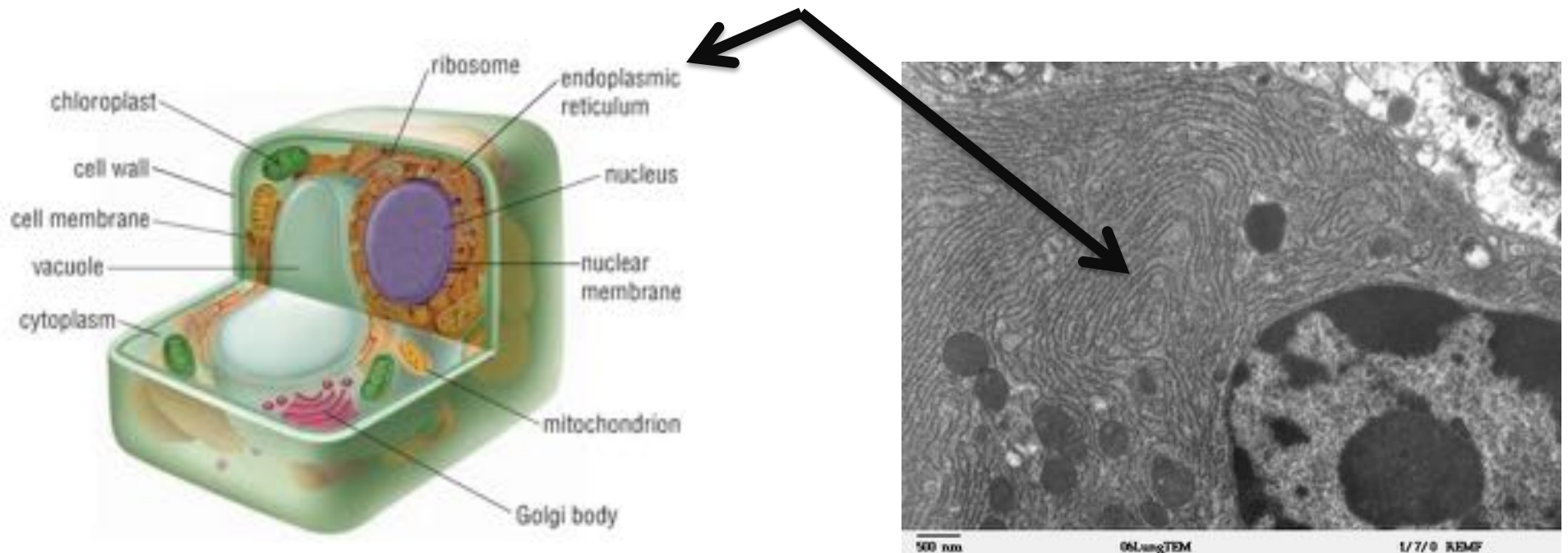
- The cells “brain”
-
-



THIS SLIDE HAS BEEN REMOVED

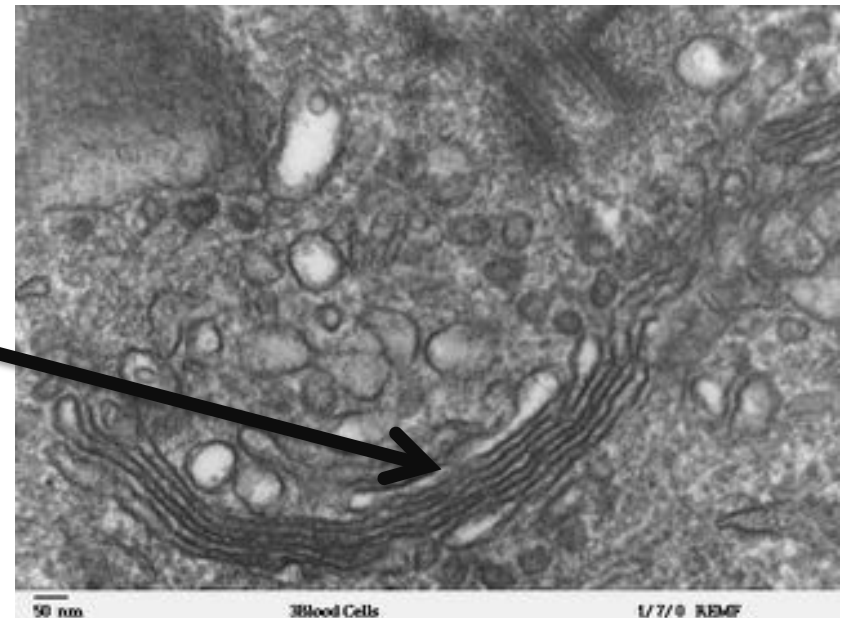
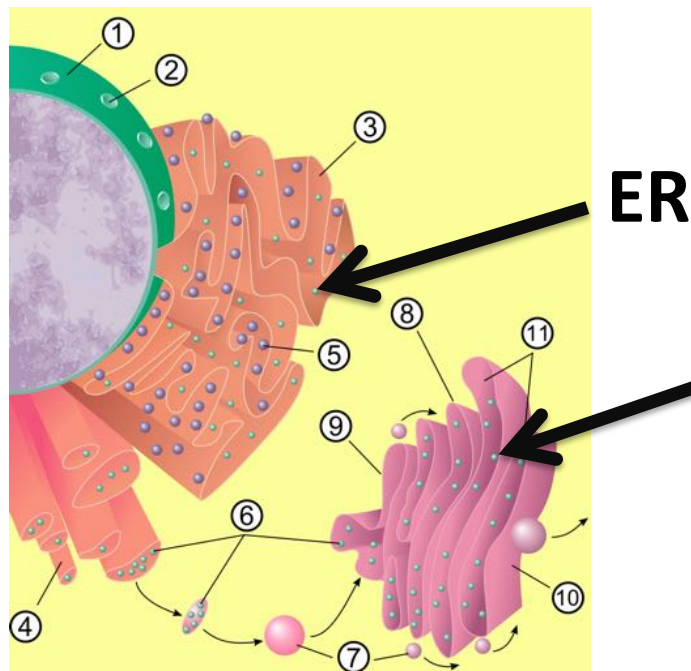
Endoplasmic Reticulum (ER)

- Network of transportation tubes that move substances around the cell
-
- Where some proteins are made



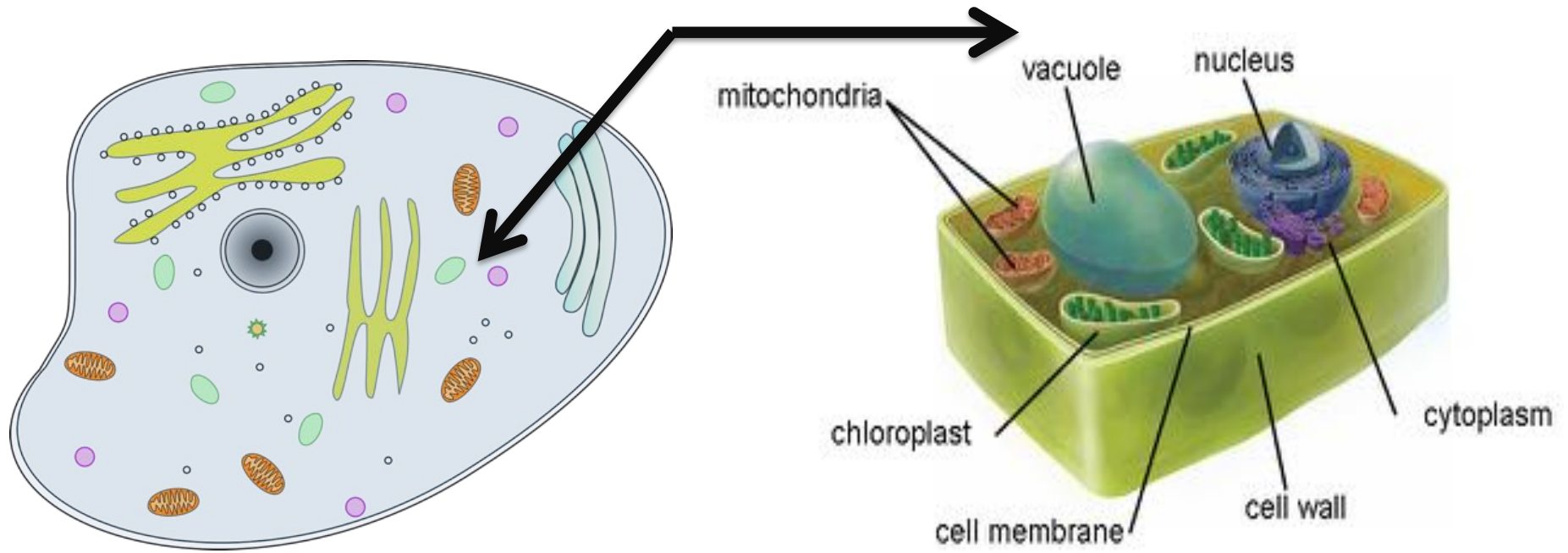
Golgi Body (Golgi Apparatus)

- Works with the ER to collect and process materials to be used by or removed from the cell
- Creates mucus for your stomach and intestine



Vacuoles

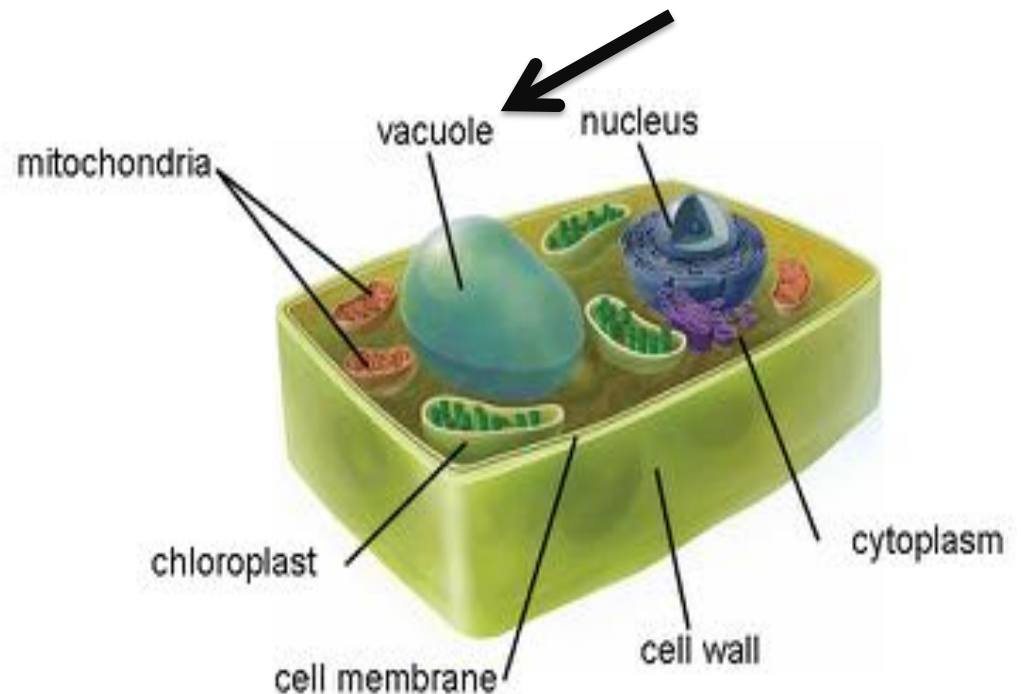
- Temporary “trash can” for the cell
- Contains unwanted substances to be removed
-



THIS SLIDE HAS BEEN REMOVED

Large, Central Vacuole

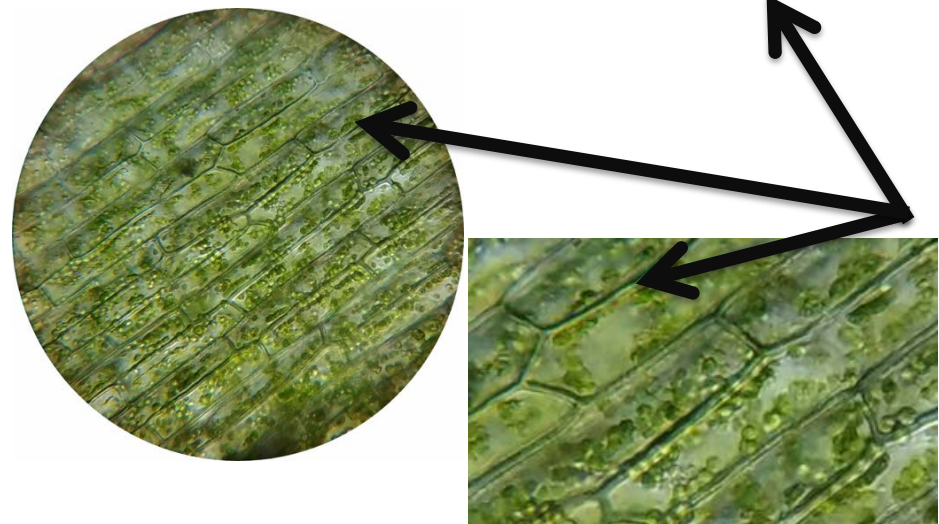
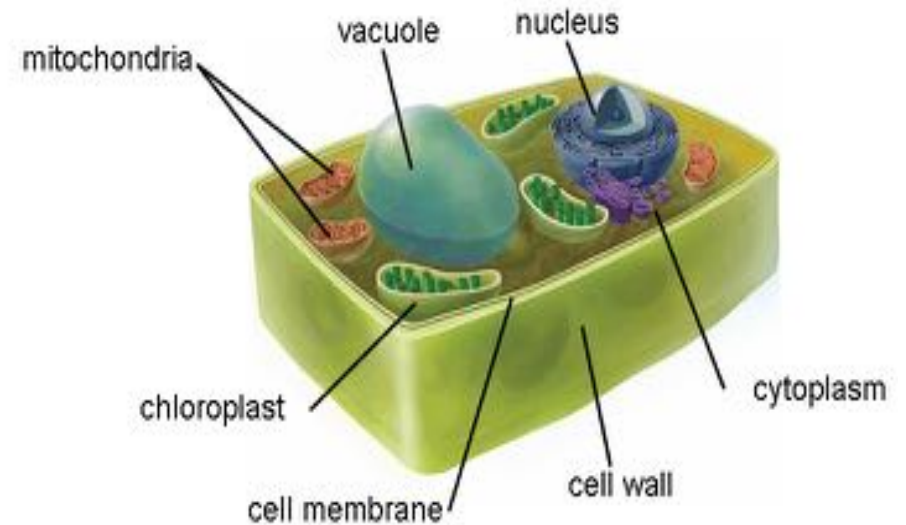
-
- It is used to temporarily hold wastes and help maintain an internal pressure
 - Similar to air inside a balloon
 - _____



VIDEO SLIDE HAS BEEN REMOVED

Cell Wall

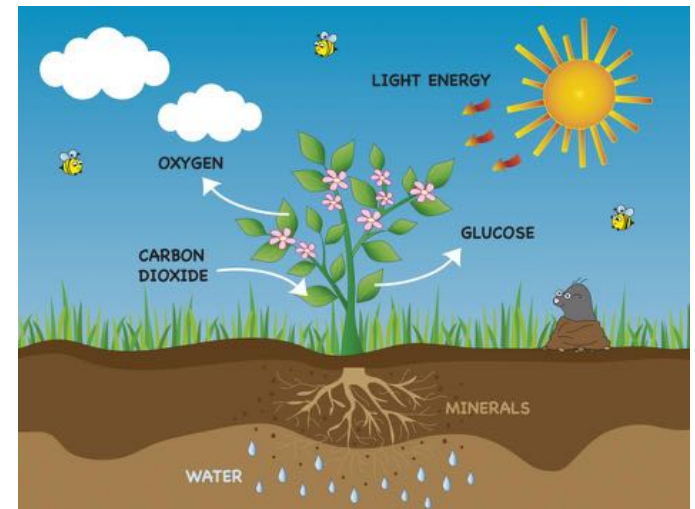
- Found just outside the cell membrane
- _____
- Provides strength to the



THIS SLIDE HAS BEEN REMOVED

Chloroplasts and Photosynthesis

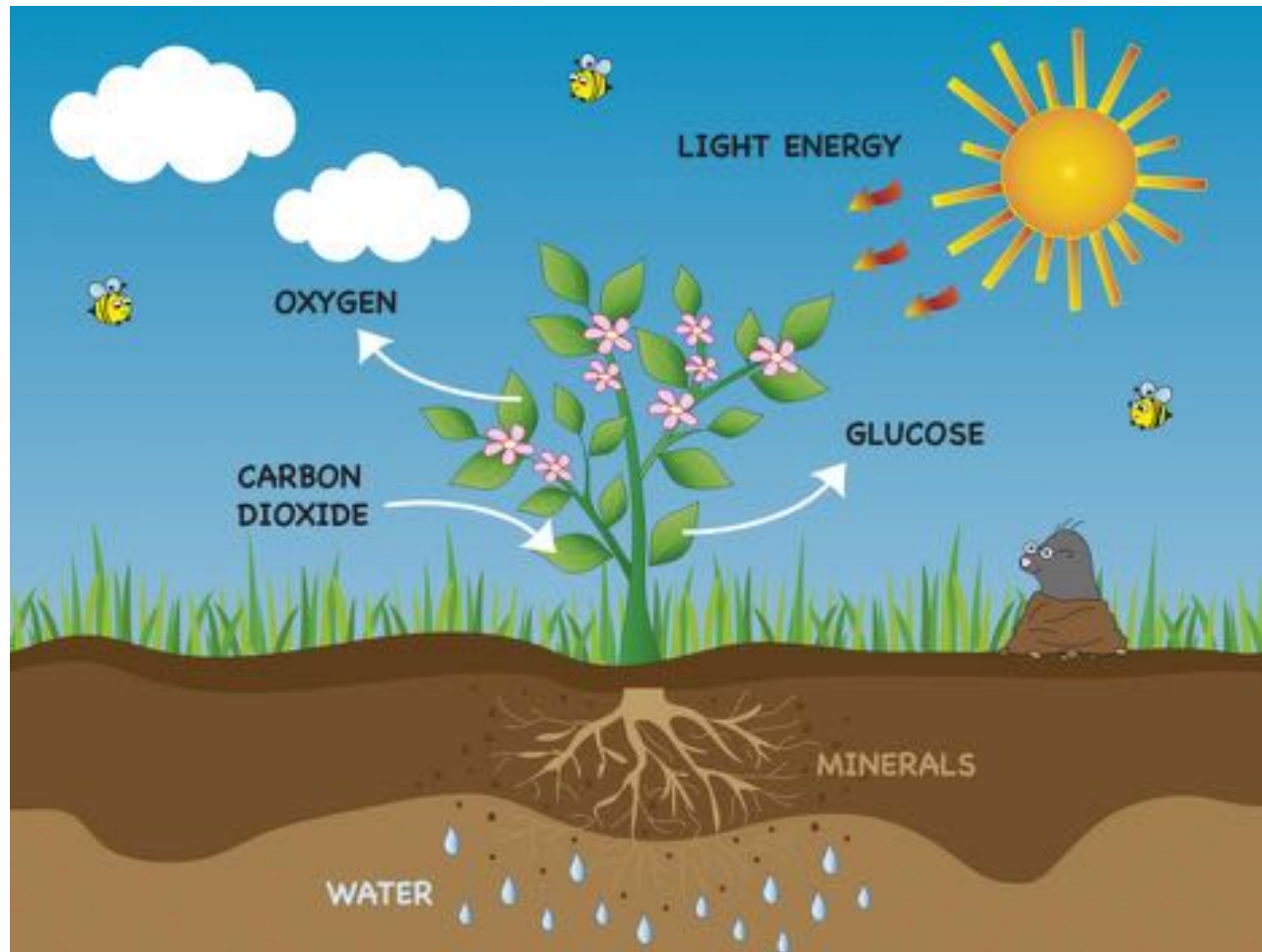
- In photosynthesis, the chloroplasts take in carbon dioxide and water from the environment and light from the Sun and _____



**VIDEO HAS BEEN
REMOVED**

Carbon Dioxide + Water + Light Energy → Glucose (Sugar) + Oxygen

Photosynthesis



Carbon Dioxide + Water + Light Energy → Glucose (Sugar) + Oxygen

THIS SLIDE HAS BEEN REMOVED

Photosynthesis – Check Your Understanding

True or False? Think about it!

1. All energy starts with plants.
2. Plants make energy through photosynthesis.

Cell Animation

[Click Here to view the plant cell animation](#)

You can also copy and paste this link into your browser:

[http://www.cellsalive.com/cells/
cell_model_js.htm](http://www.cellsalive.com/cells/cell_model_js.htm)