

Organelle Structure & Function Mix & Match

Structure/Description		Organelle	Function
A	Membrane bound sack in the plant cell.	___ Cell (Plasma) ___ Membrane	1 It is the spot of photosynthesis where "food" is made for plant cells.
B	Spherical, often in the center of the cell, bounded by a membrane.	___ Nucleus___	2 It is used to transport food or other materials from one part of the cell to another.
C	Tiny, round organelles that float around in the cytoplasm or attaches to the ER.	___ Cytoplasm___	3 Cell brain or the computer" of the cell. Contains genetic information.
D	Semi-permeable membrane surrounding the cell.	___ Vacuole___	4 Transports materials out of the cell in vesicles.
E	Semi-fluid between the cell membrane and the nucleus.	___ Cell Wall___	5 Jelly-like substance within the cell that holds up the other cell parts in the cells.
F	White, maze-like cell part surrounding the nucleus	___ Mitochondria___	6 It's the "warehouse" in a cell that stores food and waste products.
G	Shaped like a jelly bean or peanut.	___ Chloroplasts___	7 It supports and provides rigidity for cells.
H	Surrounds a plant cell.	___ Endoplasmic___ Reticulum	8 It creates protein.
I	Green, similar in shape to a mitochondria.	___ Ribosomes___	9 "Traffic-cop". It selects what enters the cell.
J	Stacks of saucer-like membranes	___ Golgi Apparatus___ (Body)	10 Called the "powerhouse of the cell" because it creates energy for cells.

Cell Organelles Questions:

- Describe 2 similarities and 2 differences between plant cells and animal cells.
- How are the functions of the endoplasmic reticulum and Golgi apparatus related?
- Many organelles contain more than one membranes. List these organelles.
- Different cells contain different amounts of each organelle.
 - What type of organelle would be found in high amounts in a **leaf** cell? Why?
 - What type of organelle would be found in high amounts in a plant **root** cell? Why?
 - What type of organelle would be found in high amounts in a **muscle** cell?
 - What type of organelle would be found in high amounts in a **liver** cell (the liver is an organ responsible for breaking down food and detoxifying the blood)?