

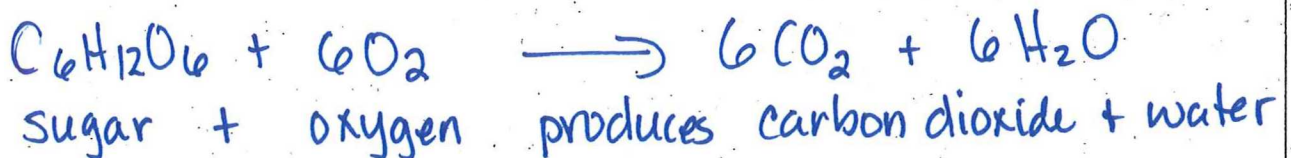
## Compare/Contrast Plant & Animal Cells

Organelle	Function	Plant	Animal
Cell Wall	provides structure + protection in a plant - made of cellulose	X	
Cell Membrane	"gate keeper" semi-permeable controls what can enter or leave the cell - (depending on size of molecule)	X	X
Nucleus	control center of the cell, contains DNA + is involved in protein synthesis	X	X
Nuclear Membrane	surrounds + protects the nucleus	X	X
Mitochondria	"power house" provides energy needed for cells to function	X	X
Chromatin	form of DNA in the nucleus	X	X
Chloroplast	Capture energy from the Sun (contains chlorophyll) + allow a plant to undergo photosynthesis	X	
Cytoplasm	Jelly-like substance in which the organelles sit	X	X
Vacuole	stores H <sub>2</sub> O in a plant	X	

### Formula for Photosynthesis



### Formula for Cellular Respiration



in plants }  
 in human cells }

State the 3 parts of the Cell Theory:

- 1.) All cells come from pre-existing cells
- 2.) All living things are made of cells
- 3.) Cells are the basic unit of structure + function in living things