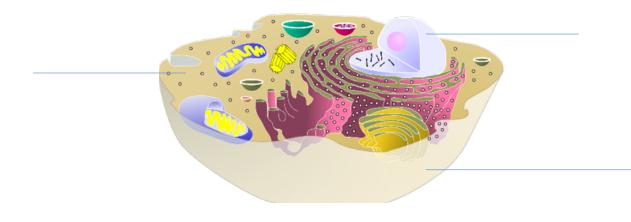
Science 8Name:Cell Theory 3: Cells and OrganellesDate:Block:		
What are the 3 main jobs of cells?	<ol> <li>Make for the cell to function</li> <li>Make to do all the work in the cell</li> <li>Clean up (produced from making)</li> </ol>	
What parts of the cell do those jobs?	<ul> <li>There are different structures () that carry out the three main jobs.</li> <li>Organelles are like the cell's</li> <li>Everything in the cell is an organelle except for the</li> </ul>	

## What are organelles and what do they do?

	<ul> <li></li></ul>	Cytoplasm
General	<ul> <li> of the cell</li> <li>Controls movements and of the cell.</li> <li>Flexible</li> </ul>	
Ger	<ul> <li>One found in cells</li> <li>Give the plant, so when they're full of water, the plant can stand up straight</li> <li> (has holes) so some materials can go through it</li> </ul>	
P	<ul> <li> of the cell, gives instructions</li> <li>Contains genetic material called</li> <li>Largest organelle in the cell</li> </ul>	

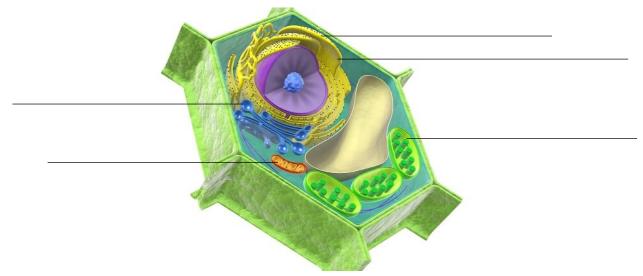
<u>Practice</u>: label the cytoplasm, cell membrane, and nucleus on the \_\_\_\_\_\_ cell below:

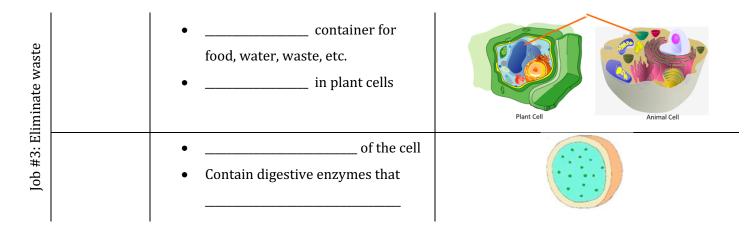


## What are organelles and what do they do?

Job #1: Produce energy		<ul> <li>Powerhouse of the cell.</li> <li> occurs here to release energy for the cell to use in the form of</li> <li>Only in cells</li> <li>This is where happens, to turn energy from the sun into glucose (a sugar)</li> </ul>	
<u> </u>		<ul> <li>Small particles that make</li> <li>Found floating free in cytoplasm or attached to</li> </ul>	Ribosomes
Job #2: Make proteins	Endoplasmic Reticulum ()	<ul> <li> of the cell (from membrane around nucleus to vesicles headed to Golgi Body)</li> <li> and other compounds</li> <li>Can be smooth or rough (with ribosomes attached)</li> </ul>	
		<ul> <li> proteins.</li> <li>Proteins are transported to and from the Golgi body by</li> </ul>	
	Vesicles	<ul> <li>Vesicles function like a</li> <li>Carry proteins, nutrients and water in and out of and around the inside of the cell.</li> <li>VeSicles are like the of the cell</li> </ul>	Transport vesicle

<u>Practice</u>: label the mitochondria, chloroplasts, ribosomes, endoplasmic reticulum, and Golgi body on the \_\_\_\_\_\_ cell:

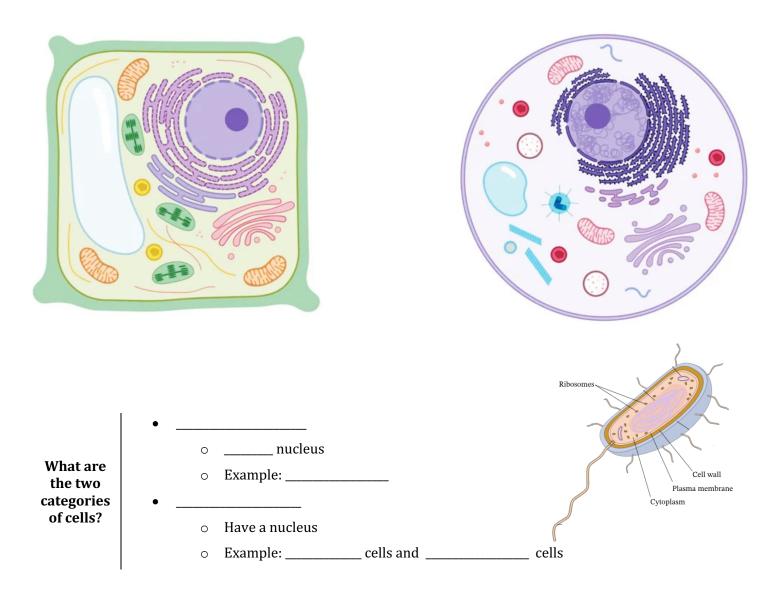


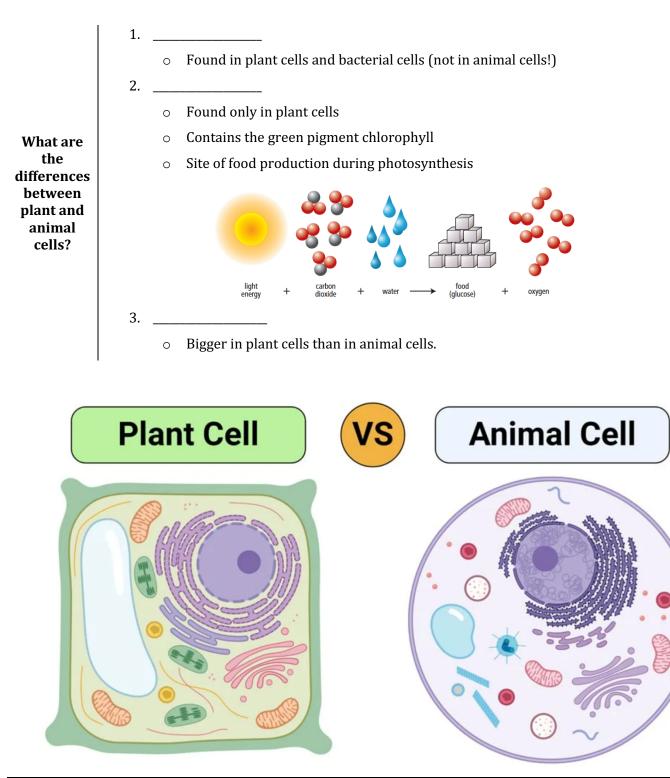


## **Quick Review: Organelles of the Cell**

Use the word bank to label the cells below. If an organelle exists in both cells, draw a line to the organelle in each cell from the label.

Cell membrane	Lysosome	Endoplasmic reticulum	Golgi Body
Cell wall	Mitochondria	Ribosome	Cytoplasm
Nucleus	Chloroplast	Vesicle	Vacuole





## **Quick Review: Plant vs Animal Cells**

1. Plant cells have 3 organelles not found in animal cells: the cell wall, a large central vacuole and chloroplasts. Complete the table below using those 3 organelles:

Organelle	Function
	Fluid-filled organelle that stores water, enzymes and waste products. Size of this organelle can vary (change).
	Supports and protects the cell.
	Convert light energy to chemical energy for use by the cell.