

NAME _____

The Virtual Cell Worksheet

1. 1. **Centrioles** are only found in _____ cells. They function in cell _____. They have _____ groups of _____ arrangement of the protein fibers. Draw a picture of a centriole in the box.
2. **Lysosomes** are called _____ sacks. They are produced by the _____ body. They consist of a single membrane surrounding powerful _____ enzymes. Those lumpy brown structures are digestive _____. They help protect you by _____ the bacteria that your white blood cells engulf. _____ act as a clean up crew for the cell. Zoom in and draw what you see.
2. 3. **Chloroplasts** are the site of _____. They consist of a _____ membrane. The stacks of disk like structures are called the _____. The membranes connecting them are the _____ membranes. Zoom in and draw a picture.
3. 4. **Mitochondrion** is the _____ of the cell. It is the site of _____. It has a _____ membrane. The inner membrane is where most _____ respiration occurs. The inner membranes is _____ with a very large surface area. These ruffles a

Centriole
Lysosomes
Chloroplasts
Mitochondrion

	19. smooth endoplasmic reticulum:
	20. vacuoles:
	21. vesicle:

Mix and Match! Each definition has only one correct matching answer

1. internal framework that anchors organelles, gives shape	A) cell membrane
2. cellular "ropes" made of repeating units of the protein <i>actin</i>	B) cell wall
3. hollow tubes for transport, movement, made of actin & tubulin proteins	C) centriole
4. vesicles pinch off these structures; proteins modified and packaged here	D) chloroplast
5. cellular "stomach"	E) chromosome
6. selectively permeable "doorman"	F) cilia
7. the most important plastid, turns CO ₂ , H ₂ O, sunlight into glucose	G) cytoskeleton
8. membrane-bound spheres that store water & dissolved materials. Membrane surrounding it is called a <i>tonoplast</i> . Plants have a large, central one.	H) flagella

Part B:
