

Name _____ **answer** _____ Date _____

CELL RIDDLES

cell wall	mitochondrion	cell membrane	golgi apparatus
nucleus	central vacuole	chloroplast	endoplasmic reticulum
	ribosomes	lysosome	

- 1) I am a thin protective layer around the cell, but I am not one solid piece. I have tiny openings that allow materials to pass in and out of the cell. I am the cell membrane
- 2) When a cell needs energy, I take in nutrients, break them down, and supply energy to the cell. I can also convert stored energy in the cell to food. I am a mitochondrion
- 3) I am a large storage unit in the cell. I am very large in plant cells, and I store water, food and wastes. I help support the plant. When I start to shrink, due to a lack of water, the plant may wilt. I am the central vacuole
- 4) I act like a digestive system in an animal cell. I contain ad enzymes that break down wastes and other materials. I am a lysosome
- 5) I am a food producer for plant cells. I absorb light energy from the sun and use it to convert carbon dioxide and water to sugar and oxygen. I am not found I am a chloroplast
- 7) We build proteins in the cell. We can be found in several places in the cell, including both ERs. We are ribosomes
- 8) I am the "brain" of the cell, and I control all the activities of the cell. I am located in the cytoplasm, but you would not find me in prokaryotic cells. I am the nucleus
- 9) I am the cell's transport system. There are two types of me, rough and smooth. The rough type has ribosomes attached. I am the endoplasmic reticulum
- 10) I am found only in plant cells and prokaryotes. I am the outermost part of the plant cell. I provide support and protection and give plants their shape, since they don't have bones. I am the cell wall
- 11) I gather molecules and make them more complex. I store these molecules or send them into the cytoplasm or out of the cell. I also process proteins produced by the ER and ribosomes. I am the golgi apparatus