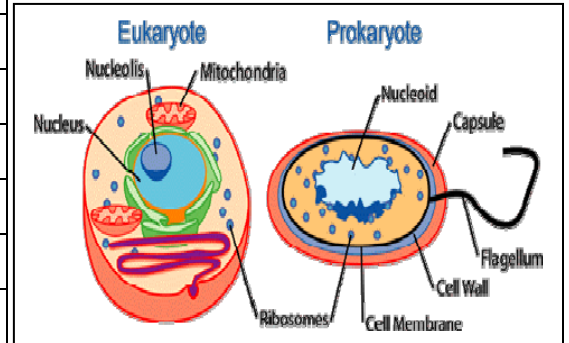


CELL STRUCTURE AND PROCESSES Practice Worksheet

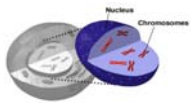
1. Fill out the chart about cells with a “Yes” or a “No.”

	Prokaryotic	Eukaryotic
Cell membrane		
Cytoplasm		
Genetic Material		
Ribosome		
Nucleus		
Organelles		
Type of Cell	Simple	Complex

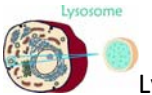


2. Which organelles are found ONLY in the plant cell and not animal cells? (Note: Some prokaryotic bacteria cells may have these organelles.)

3. Match the cell organelle to its function.



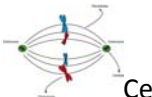
Nucleus



Lysosome



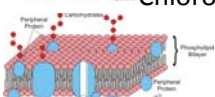
Vacuole



Centrosome



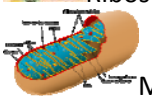
Chloroplast



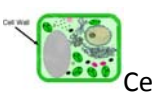
Cell Membrane



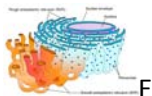
Ribosome



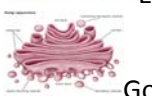
Mitochondria



Cell Wall



Endoplasmic Reticulum (ER)



Golgi Apparatus

Protein Synthesis

Has a role in Mitosis to separate chromosomes

Contains DNA

Transport nutrients within the cell

Packages proteins made; Exocytosis

Breaks down nutrients and wastes

Storage

Breaks down glucose into ATP energy

Photosynthesis



A flexible membrane around eukaryotic cells

A rigid membrane found in plants and some bacteria

4. Specialized cells are determined by DNA and they are specialized to do a specific job. What is the special job of--

Type of Specialized Cells	Specialized Job
 <p>Red Blood Cells</p>	
 <p>White Blood Cells</p>	
 <p>Muscle</p>	
 <p>Nerve</p>	
 <p>Bone</p>	

5. Fill out the chart below about Cell Energy.

	Photosynthesis	Cellular Respiration
Occurs in what type of cells?		
Takes place in the _____ organelle.		
Reactants (uses)		
Produces (creates)		
Full Equation		

6. Compare and contrast the two types of cell transport.

Active Transport	Passive Transport

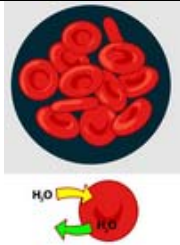

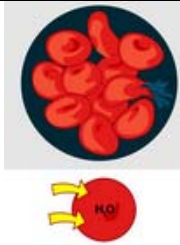
7. Describe how the following types of Active Transport works.

	Active Transport	Endocytosis	Exocytosis
How does it work?			
What does it use to move things across the cell membrane?			
What type of things does it move across the cell membrane?			
Draw a picture of it.			

8. Describe how the following types of Passive Transport works.

	Diffusion	Facilitated Diffusion	Osmosis
How does it work?			
What does it use to move things across the cell membrane?			
What type of things does it move across the cell membrane?			
Draw a picture of it.			

9. In the diagram below, identify the type of passive transport- osmosis that is occurring.

			
Type of Osmosis			
What happens to the cell?			