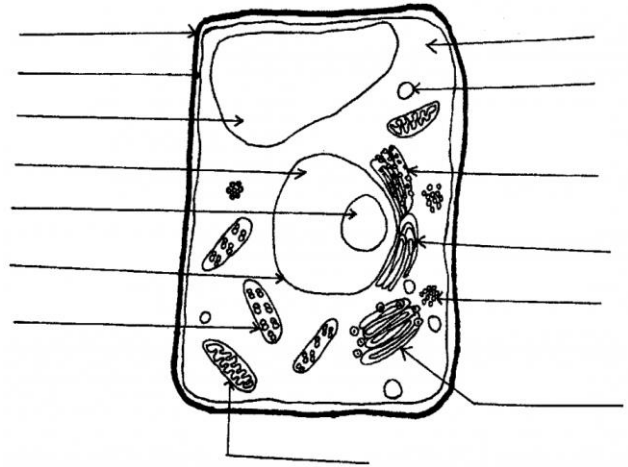
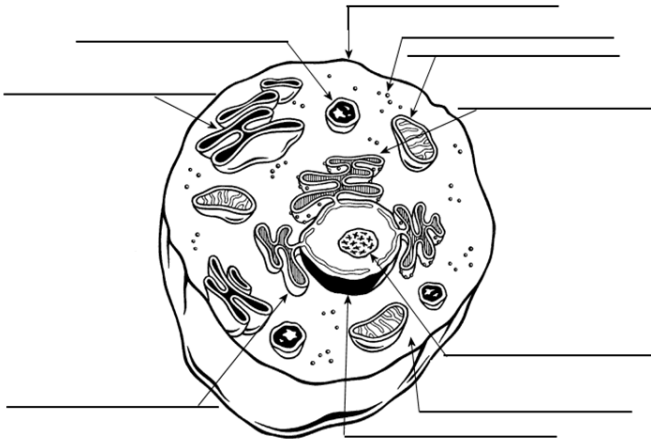


Unit 1 Study Guide

Cell Organelles: Tell what each organelle's function is below.

Chloroplast	Lysosomes	Vacuole
Cell Membrane	Cell wall	Mitochondria
Golgi Bodies	Ribosomes	Endoplasmic Reticulum
Nucleus	Nucleolus	Cytoplasm

Labeling: Identify each organelle below. Circle the organelles that are DIFFERENT for the plant and animal.

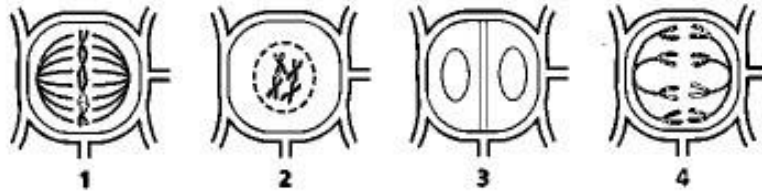


List the similarities and differences between prokaryotic and eukaryotic cells.

Prokaryotic	Both	Eukaryotic

Cell Division:

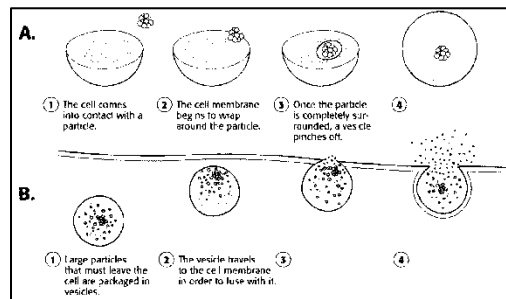
1. What are the 3 reasons for cell division? _____
2. Mitosis and Meiosis are responsible for the nucleus being _____
3. What is the purpose of the cell cycle? _____
4. How many cells are produced from mitosis? _____ Meiosis? _____
5. What process is shown below? _____
 - a. Identify/label each phase below:



6. What is responsible for chromosomes moving within the cell? _____
7. What would happen if the spindle fibers were not able to attach to the chromosomes? _____
8. What is genetic information and where is it located? _____
9. What would happen if a cell lost its nucleus or it was damaged? _____

Cell Processes:

1. Diffusion moves particles from area of _____ concentration to areas of _____ concentration.
2. Cell respiration is the process that cells use _____ and _____ to create _____.
3. What is photosynthesis and what cells use photosynthesis? _____
4. What is osmosis? _____
5. Look at the diagram below. Name the process being illustrated in figure A and figure B and explain what is happening.



6. How is food converted into energy? _____
7. How do animal cells get their energy? _____
8. What is the purpose of cellular respiration? _____
9. What allows materials to enter and exit a cell? _____
10. Why do cells have different shapes? _____
11. What is the formula for Photosynthesis? _____
12. What is the formula for cell respiration? _____