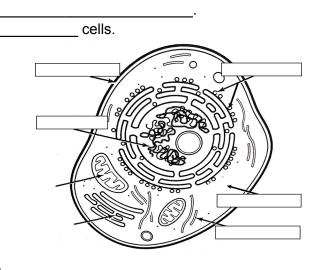
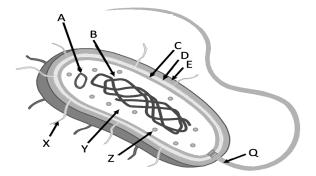
Guided Review: Cell Theory and Cell Structures

I. The Cell Theory

- a. Every living thing is made of one or more _____.
- b. The cell is the basic unit of structure and _____
- c. All cells come from
- II. Cell Features
 - a. ALL cells have these parts:
 - 1. Ribosomes make
 - 2. Cytoplasm _____
 - 3. DNA _____
 - 4. Cytoskeleton –
 - 5. Cell Membrane –
- III. Answer true or false
 - a. Bacteria cells have a cell membrane.
 - b. Plant cells have cytoplasm.
 - c. Cells taken from fungi do not have DNA.____
 - d. Cells can only come from pre-existing cells.
 - e. The framework of the cell is called the cytoplasm.____
 - f. The outer boundary of the cell is the cell membrane.
- IV. Prokaryote Cells
 - a. First cells; Simple cells; Bacteria
 - b. These cells do NOT have a _____
 - c. DNA floats within the _____
- V. Bacteria Cell Matching
 - a. _____ Flagellum
 - b. _____ DNA (nucleoid region)
 - c. ____ Ribosome
 - d. ____ Pilus
 - e. ____ Cell Wall
 - f. ____ Cell Membrane
 - g. __E__ Cell Capsule
 - h. _____ Cytoplasm
 - i. Plasmid
- VI. Eukaryotic Cells
 - a. Cells found in plants, animals, protists, and fungi
 - b. Four main parts
 - i. _____

 - ii. ______ "control center" of cell
 - iv. ______ small structures that carry out specific functions ("little organs")
 - c. Nucleus *Contains the instructions for building a cell and controlling its functions.
 - i. Nuclear Membrane _____
 - ii. Nucleoplasm _____
 - iii. Nucleolus _____
 - iv. DNA
 - v. True or False
 - 1. All cells have a nucleus.
 - 2. All cells have a cell membrane.





- 3. The nucleus contains the cell's DNA.
- 4. Chromatin is made of DNA.
- 5. The nucleolus makes the cell's DNA.
- VII. Cell Structures (in both Prokaryote and Eukaryotic Cells)
 - a. Mitochondria = cell's _____ center
 - i. Uses ______ and _____ in a process called cellular
 - ii. It is sometimes called the: _____ of the cell
 - b. Endoplasmic Reticulum
 - i. Transport, intracellular
 - ii. Rough ER contains _____
 - iii. Smooth ER does not
 - c. Golgi Apparatus = packages and _____ proteins.
 - i. It is like a factory or a _____
 - ii. The ______ is the "package" that can be sent out of the cell.
 - d. Lysosome contains ______ enzymes which break things down.
 i. Also called the "______"
 - - ii. *What disease is caused by abnormal lysosomes?
 - e. Cytoskeleton helps maintain the cell's _____
 - i. involved in _____
 - ii. _____ provide a framework (like our bones)
 - iii. includes _____ for cell division
 - iv. Structures that Function in Movement (part of cytoskeleton)

 - 1. _____ = tail-like structures
 2. _____ = shorter hair like structures
 - f. Vacuole = storage area for water and other substances
 - i. Plant cells have a large _____ vacuole
- VIII. Label the Animal Cell:
- IX. How are Plant Cells different from Animal Cells?
 - a. A large central ______ stores water.
 - b. Chloroplasts are used to capture _____ to create food

(photosynthesis)

- c. A cell wall surrounds the cell (outside the membrane)
- d. Square-shaped
- e. Label on the drawing the:



