Name	Date	Period

Biology Homework 1-5.2 Cells Rewind

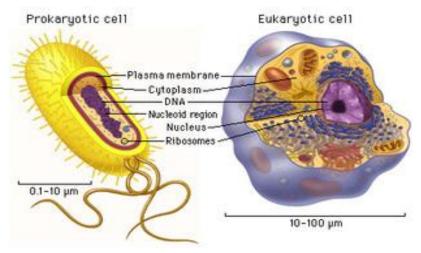
Use your **journal** as a reference tool in addition to the information provided below. Circle your answer choices and justify your answers.

The **cell theory** states that:

- 1. Cells are the basic unit of life.
- 2. All living things are made of one or more cells.
- 3. Cells can only come from other living cells.

Cells are either eukaryotic or prokaryotic.

Eukaryotes Prokaryotes	
 Large cells Many organelles; complex cells Have a nucleus with DNA inside Plants; animals 	 Smaller than eukaryotes No organelles; simpler cells than eukaryotes No nucleus; DNA is circular and floats in middle of cell. Bacteria
Both have a cell membran	e, cytoplasm, DNA, and ribosomes.



Chloroplast - site of photosynthesis

Endoplasmic reticulum (ER) - a series of highly folded membranes that act as the highway of the cell

Golgi apparatus - a series of flattened membrane sacs that sorts, modifies, and distributes proteins

Lysosomes - contain enzymes that digest or break down worn out cell parts, excess food particles, and invading bacteria or viruses

Mitochondria - produce usable energy in the form of ATP through cellular respiration

Nucleus - contains DNA, which holds the instructions for making proteins

Ribosomes - the site of protein synthesis

Vacuoles - store things (enzymes, food, and other materials) within the cell

1.	Amino acids link together by peptide bonds to form proteins. In which cellular organelle would this process occur? a. Mitochondria b. Ribosome c. Lysosome d. Golgi body
2.	Which is surrounded by a double membrane and is the site for photosynthesis in plants? a. Nucleus b. Lysosome c. Cell wall d. Chloroplast
3.	What organelle packages proteins into forms that the cell can use, expel, or store? a. Centrioles b. Golgi bodies c. Lysosomes d. Mitochondria
4.	The structure most responsible for maintaining cell homeostasis is the a. Cytoplasm b. Cell wall c. Mitochondrion d. Plasma membrane
5.	Which of the following is true about all cells? a. All cells are the same size. b. All cells contain a nucleus. c. All cells come from pre-existing cells. d. All cells have membrane bound organelles.
6.	Which of the following is found in both prokaryotes and eukaryotes? a. Nucleus b. Cell membrane c. Mitochondria d. Golgi apparatus