

NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

**PART 1: Describe (characteristics and function) the main structures common to eukaryotic and prokaryotic cells. Note whether the cell has or does not have the specific organelle.**

<b>Structure</b>	<b>Prokaryotic Cell</b>	<b>Eukaryote Cell</b>
Cell Membrane		
Cell Wall		
Chloroplast		
Cytoplasm		
Mitochondria		
Nucleus		

Organelles		
Vacuoles		

**PART 2. Answer the following questions**

1. Explain the differences between an animal cell and plant cell. Give three facts.
  - a.
  - b.
  - c.
2. Give three examples how a prokaryotic cell is different than a eukaryote cell.
  - a.
  - b.
  - c.

PART 3: A cell is like a factory. Materials come in, a product is manufactured and is sent out and distributed. Choose a cell (prokaryotic or eukaryotic) then design a factory using the organelles as the factory components. EXAMPLE: A cell wall would be the walls of the factory. Make sure you neatly draw, label the organelle (part within the factory), and neatly color it. You may need to draw arrows to illustrate the process.