Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_\_\_

**Prokaryotes vs. Eukaryotes**

**Define and Provide Examples:**

Prokaryote - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Eukaryote - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Using a Venn diagram, compare and contrast prokaryotes and eukaryotes:**

**Organelle and Function Chart**

|  |  |  |
| --- | --- | --- |
| **Feature** | **Structure**  (What does it look like? What is it made of?) | **Function**  (What does it do?) |
| **Common to all Cells (Prokaryotes & Eukaryotes)** | | |
| **Plasma Membrane** |  |  |
| **Cytoplasm** |  |  |
| **Common to Plant & Animal Cells (Eukaryotes)** | | |
| **Mitochondrion**  **(plural: Mitochondria)** |  |  |
| **Ribosome(s)** |  |  |
| **Endoplasmic Reticulum (ER)** |  |  |
| **Golgi Apparatus** |  |  |
| **Vesicle(s)** |  |  |
| **Lysosomes** |  |  |
| **Cilia & Flagella**  **(singular: flagellum)** |  |  |
| **Nucleus** |  |  |
| **Nucleolus** |  |  |
| **Plant Cells Only** | | |
| **Cell Wall** |  |  |
| **Vacuole(s)** |  |  |
| **Chloroplast(s)** |  |  |