**Cell Organelles Worksheet**

**Directions: Complete the following table by writing the name of the cell organelle in the right-hand column that matches the structure/function in the left-hand column. Use your organelle foldable to help you!**

|  |  |
| --- | --- |
| **Structure/Function** | **Cell Part** |
| Stores material within the cell |  |
| The sites of protein synthesis |  |
| Organelle that manages or controls all the cell functions in a eukaryotic cell |  |
| Contains chlorophyll, a green pigment that traps energy from sunlight and gives plants their green color |  |
| Digests excess or worn-out cell parts, food particles and invading viruses or bacteria |  |
| Surrounds the nucleus and controls what enters and exits the nucleus |  |
| Firm, protective structure that gives the cell its shape in plants, fungi, most bacteria and some protists |  |
| Produces a usable form of energy for the cell |  |
| Packages proteins for transport out of the cell |  |
| Assembles some components of the cell membrane; synthesizes lipids |  |
| Site where ribosomes are made |  |
| Provides support for the cell and controls what goes in and out of the cell |  |
| Jelly-like fluid inside the cell membrane |  |
| Assembles some components of the cell membrane; modifies proteins; has ribosomes attached to it |  |
| Small organelle that assists with cell division |  |

Put a check in the appropriate column(s) to indicate whether the following organelles are found in plant cells, animal cells or both.

| **Organelle** | **Plant Cells** | **Animal Cells** |
| --- | --- | --- |
| Cell Wall |  |  |
| Centrioles |  |  |
| Chloroplast |  |  |
| Smooth Endoplasmic Reticulum |  |  |
| Cytoplasm |  |  |
| Rough Endoplasmic Reticulum |  |  |
| Golgi apparatus |  |  |
| Lysosome |  |  |
| Mitochondria |  |  |
| Nucleolus |  |  |
| Nucleus |  |  |
| Nuclear membrane |  |  |
| Cell membrane |  |  |
| Central vacuole |  |  |
| Ribosome |  |  |
| Vacuole |  |  |

* What is the main difference between prokaryotes and eukaryotes?
* Are bacteria PROKARYOTES or EUKARYOTES?
* Are fungi, plants, and animals PROKARYOTES or EUKARYOTES?
* Fill in the blank. The Cell Theory states:
1. All \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ things are composed of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. \_\_\_\_\_\_\_\_\_\_\_\_ are the basic unit of structure and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in living things.
3. New cells are created from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.