Sci 8 **Cell Structure and Function Worksheet**  Name:

|  |  |  |  |
| --- | --- | --- | --- |
| **Structure** | **Description** | **Function** | **Nickname** |
| Cytoplasm | Jelly-like substance, mostly water. Inside the cell membrane. | Keep organelles in place and protects them from damage. Site of many cellular functions | Environment |
| Nucleus | Spherical |  |  |
| Endoplasmic Reticulum | Can be smooth or rough |  |  |
|  |  | Packages proteins for transport out of the cell | Post Office |
|  | Small bumps located on portions of the endoplasmic reticulum or free in the cytoplasm | Assemble Proteins in the cytoplasm |  |
|  |  |  | Powerhouse of the cell |
|  |  | Converts sun’s energy and nutrients from soil to make food for cell by a process called: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |
| Lysomes | Vesicle containing enzymes | Digests excess or worn-out cell parts, food particles and invading viruses or bacteria |  |
|  |  |  | Storage Facility |
|  |  |  | Gate Keeper |
| Cell Wall |  |  |  |
| **Structure** | **Description** | **Function** | **Nickname** |
| Nucleolus |  |  |  |
| Vesicles |  |  |  |
|  | Long whip-like structure | Used for locomotion |  |
|  | Short hair-like structures | Involved in movement of particles or entire cell (locomotion) |  |
|  |  | Allows material to leave the *nucleus* |  |
| Centrioles |  |  |  |

**Create a Venn diagram comparing a plant cell to an animal cell:**

Animal Cell Plant Cell