

Cell Organelles Worksheet

Complete the following table by writing the name of the cell part or organelle in the right-hand column that matches the structure/function in the left-hand column. A cell part **may** be used more than once.

| Structure/Function | Cell Part |
|--|------------------------|
| 1. Stores material within the cell | Vacuole |
| 2. Controls what moves in and out of the nucleus | Cell Membrane |
| 3. The sites of protein synthesis | Ribosomes |
| 4. Considered the roadways of the cell | ER |
| 5. The region inside the cell except for the nucleus | Cytoplasm |
| 6. Organelle that manages or controls all the cell functions in a eukaryotic cell | Nucleus |
| 7. Site of photosynthesis in plants | Chloroplast |
| 8. Contains enzymes to digest excess or worn-out cell parts, food particles and invading viruses or bacteria | lysosomes |
| 9. Small bumps located on portions of the endoplasmic reticulum | Ribosomes (Rough ER) |
| 10. Provides temporary storage of water and food particles | Central Vacuole |
| 11. Firm, protective structure that gives the cell that provides support in plants, fungi, most bacteria and some protists | Cell wall |
| 12. Produces a usable form of energy for the cell | Mitochondria |
| 13. Packages proteins from rough ER for transport out of the cell | Golgi Apparatus (Body) |
| 14. Organelle that helps breakdown toxins, poisons, and waste | Lysosomes |
| 15. Site where rRNA is made | Nucleolus |
| 16. The membrane surrounding the cell, controls what goes in and out of cell. | Cell Membrane |
| 17. Provides support for the cell, includes cilia & flagella | Microtubules |

| | |
|--|---------------|
| 18. Small membrane-bound sacs used in transport of materials in cells | Vacuoles |
| 19. Helps cell maintain shape, helps move cell (if cell moves), helps move things within cell. | Cell Membrane |
| 20. Small hair-like structures used for movement or sensing things | Cilia |
| 21. Composed of a phospholipid bilayer | Cell Membrane |
| 22. Longer whip-like structures used for movement | Flagella |

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 | ✓ | |
| Vesicle | ✓ | ✓ |
| Chloroplast | ✓ | |
| Centrioles | | ✓ |
| Cytoplasm | ✓ | ✓ |
| Cytoskeleton | ✓ | ✓ |
| Endoplasmic reticulum | ✓ | ✓ |
| Golgi apparatus | ✓ | ✓ |

| Organelle | Plant Cells | Animal Cells |
|---------------------|-------------|--------------|
| Lysosome | ✓ | ✓ |
| Mitochondria | ✓ | ✓ |
| Nucleolus | ✓ | ✓ |
| Nucleus | ✓ | ✓ |
| Plasma membrane | ✓ | ✓ |
| One large vacuole | ✓ | |
| Ribosome | ✓ | ✓ |
| Many small vacuoles | | ✓ |

In the tables above, circle the three parts that are found in both prokaryotic (bacteria) and eukaryotic (all other living things) cells.

Using the diagram of the cell membrane below. Label the parts of the cell membrane and the function of each part.

