

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 | |
| 2. Closely stacked, flattened sacs (plants only) | |
| 3. The sites of protein synthesis | |
| 4. Transports materials within the cell | |
| 5. The region inside the cell except for the nucleus | |
| 6. Organelle that manages or controls all the cell functions in a eukaryotic cell | |
| 7. Contains chlorophyll, a green pigment that traps energy from sunlight and gives plants their green color | |
| 8. Digests excess or worn-out cell parts, food particles and invading viruses or bacteria | |
| 9. Small bumps located on portions of the endoplasmic reticulum | |
| 10. Provides temporary storage of food, enzymes and waste products | |
| 11. Firm, protective structure that gives the cell its shape in plants, fungi, most bacteria and some protists | |
| 12. Produces a usable form of energy for the cell | |
| 13. Packages proteins for transport out of the cell | |
| 14. Everything inside the cell including the nucleus | |
| 15. Site where ribosomes are made | |

| | |
|---|--|
| 16. The membrane surrounding the cell | |
| 17. Provides support for the cell, has two "subparts" | |
| 18. Name for the collection of DNA in the nucleus of eukaryotic cells | |
| 19. Consist of hollow tubes which provide support for the cell | |
| 20. Small hair-like structures used for movement or sensing things | |
| 21. Composed of a phospholipid bilayer | |
| 22. Longer whip-like structures used for movement | |

Put each of the following organelles into one of the four columns, based on their role in metabolism.

Lysosomes

Mitochondria

Plasma membrane

Vacuoles

| Ingestion | Digestion | Respiration | Excretion |
|------------------|------------------|--------------------|------------------|
| | | | |

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 | | |
| Chromatin | | |
| Cytoplasm | | |
| Cytoskeleton | | |
| Endoplasmic reticulum | | |
| Golgi apparatus | | |

| Organelle | Plant Cells | Animal Cells |
|------------------|--------------------|---------------------|
| Lysosome | | |
| Mitochondria | | |
| Nucleolus | | |
| Nucleus | | |
| Plasma membrane | | |
| Central vacuole | | |
| Ribosome | | |
| Vacuole | | |