Cells – Basic Unit of Life Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ April 30, 2019

1. **Match the organelle on the left with the proper function or description on the right.**

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| **Organelle** | **Function or Description** |
| \_\_\_\_\_ Endoplasmic reticulum | 1. Contains the green pigment needed to carry out photosynthesis to make sugars (food).
 |
| \_\_\_\_\_ Vacuole | 1. Two small structures found near the nucleus involved in cell reproduction.
 |
| \_\_\_\_\_ Centrioles | 1. They break down glucose (sugar) to provide the cell with energy.
 |
| \_\_\_\_\_ Mitochondrion | 1. Saclike structure that stores materials such as water, salts, proteins, and carbohydrates.
 |
| \_\_\_\_\_ Chloroplast | 1. To assist with the management or the movement of substances within the cell (highway system).
 |

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| **Organelle** | **Function or Description** |
| \_\_\_\_\_ Ribosomes | 1. These structures are involved in cell reproduction (they are not found in plant cells but animal cells only).
 |
| \_\_\_\_\_ Vacuoles | 1. These structures function is to aid in the making of proteins (are often called the “protein factories”).
 |
| \_\_\_\_\_ Centrioles | 1. It is not a living part of the cell (unlike the cell or plasma membrane).
 |
| \_\_\_\_\_ Mitochondrion | 1. They are referred to as “storage bins” of the cell.
 |
| \_\_\_\_\_ Cell wall | 1. They are often called the “powerhouse” of the cell.
 |

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| **Organelle** | **Function or Description** |
| \_\_\_\_\_ Cell or plasma membrane | 1. It is the control center of the cells, controls cell reproduction and most the cell’s activities.
 |
| \_\_\_\_\_ Nucleus | 1. These structures are found scattered throughout the cytoplasm.
 |
| \_\_\_\_\_ Vacuoles | 1. It is made mostly of cellulose, provides protection, shape, and support.
 |
| \_\_\_\_\_ Ribosomes | 1. Some store substances to be used by the cell whereas others store waste that will be removed from the cell.
 |
| \_\_\_\_\_ Cell wall | 1. It controls or regulates substances in or out of the cell.
 |

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| **Organelle** | **Function or Description** |
| \_\_\_\_\_ Cell or plasma membrane | 1. Gases, water, and some minerals can pass through small pores (openings) in this structure.
 |
| \_\_\_\_\_ Nucleus | 1. It is a network of tubes or canals.
 |
| \_\_\_\_\_ Chloroplast | 1. Chlorophyll is needed in this structure to carry out photosynthesis to make sugars (food).
 |
| \_\_\_\_\_ Cell wall | 1. It is a living part of the cell made up of lipids and proteins, supports and gives the cell shape, and protects the inside of the cell.
 |
| \_\_\_\_\_ Endoplasmic reticulum | 1. It is composed of genetic information that is organized into threadlike structures called chromosomes.
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Identify (list) the organelles common to both animal and plant cells (look at diagrams of both plant/animal cells).

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Identify (list) the organelles found only in animal cells.

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Identify (list) the organelles found only in plant cells.

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