***Levels of Organization Worksheet Instructions***

**Read the following:**

Multicellular organisms, such as plants and animals, have various levels of organization within them. The levels of organization from smallest to largest are:

Cells → tissues → organs → organ systems → organisms

Although individual cells can perform specific functions, they become dependent on one another and can work together for the good of the entire organism.

Cells are the first and simplest level, as they are the basic structural and functional units in living things. Examples include blood cells, bone cells, root cells, etc.

The next level, tissues, are made up of cells that are similar in structure and function and which work together to perform a specific activity. Humans, for example, have four basic tissues: connective, epithelial, muscle, and nerve.

Organs are made up of tissues that work together to perform a specific activity. Examples of this level are the heart, brain, skin, etc.

The fourth level is made up of the organ systems. These are groups of two or more organs that work together to perform a specific function for the organism. Examples in the human body include the circulatory, nervous, skeletal, muscular, integumentary, endocrine, digestive, immune, reproductive, excretory, and respiratory systems.

The final level of organization is the organism. Organisms are living things that carry out all basic life processes. Organisms take in materials, release energy from food, release waste, grow, respond to the environment, and reproduce.

Although an organism can be made up of only one cell such as bacteria, most organisms, including plants and animals, are usually made up of organ systems performing these functions.

**Directions:**

* You will pick a cell, drawl it, color it and label it on your worksheet.
* Figure out what kind of tissue is made up of that cell. Once you have picked a tissue drawl it, color it and label it on your worksheet.
* Figure out what kind of organs are made up of that tissue. Once you have picked an organ drawl it, color it and label it on your worksheet.
* Figure out what organ system has that organ in it. Once you have found the organ system drawl it, color it and label it on your worksheet.