LEVELS OF ORGANIZATION

\*You are a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organism – a living thing made up of \_\_\_\_\_\_\_\_\_\_\_\_ than \_\_\_\_\_\_\_\_\_ cell. \* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cell

\*Since we have so many cells, they must become \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to perform \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function. This means that each cell has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_.

\*The levels of organization for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms are:

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, tissues \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, organ systems

\*The ***first*** ***level of organization*** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_. Cells are specialized to carry out \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ jobs. Each type of cell depends upon other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to function.

\*Different types of cells: NERVE CELL, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, SPERM CELL

\*The ***second*** ***level of organization*** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. A tissue is a group of similar cells working together to \_\_\_\_\_\_\_\_\_\_\_\_\_\_ a specific \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

\*Animals and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have four major types of tissues: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, epithelial, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and nervous tissue.

\*Epithelial tissue – skin, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - bone, \_\_\_\_\_\_\_\_\_\_\_, cartilage

\*Muscle tissue - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, biceps, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - spinal cord, \_\_\_\_\_\_\_\_\_\_\_\_\_

\*The ***third level of organization*** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. An organ is a group of several different types of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that work together to perform a complex \_\_\_\_\_\_\_\_\_\_\_\_\_ such as hearing or seeing.

\*The ***fourth level of organization*** is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. An organ system is a group of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that work together to perform a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ function.

\*Humans and many other animals have \_\_\_\_\_\_\_\_\_\_\_ organ systems that work together \_\_\_\_\_\_\_\_\_\_\_ the body.

1. ***RESPIRATORY***

 Organs – mouth, nose, pharynx, larynx, trachea, bronchi, lungs

 Function –

1. ***CIRCULATORY***

Organs – heart, blood, blood vessels

Function –

1. ***NERVOUS***

Organs – brain, spinal cord, peripheral nerves, sense organs

Function –

1. ***DIGESTIVE***

Organs – mouth, pharynx, esophagus, stomach, small and large intestines

Function –

1. ***EXCRETORY***

Organs – skin, lungs, kidneys, ureters, urinary bladder, urethra

Function –

1. ***MUSCULAR***

Organs – skeletal muscles, smooth muscles, heart

Function:

1. ***SKELETAL***

Organs: bones, cartilage, ligaments, tendons

Function:

1. ***REPRODUCTIVE***

Organs: Male – testes, urethra, penis

 Female – ovaries, fallopian tubes, uterus, vagina

Function:

1. ***ENDOCRINE***

Organs- pancreas, ovaries, testes, hypothalamus, pituitary, thyroid, parathyroid, adrenal

Function:

1. ***IMMUNE***

Organs- white blood cells, thymus, spleen, lymph nodes, lymph vessels

Function -

1. ***INTEGUMENTARY***

Organs – skin, hair, nails, sweat, and oil glands

Function: