

Name \_\_\_\_\_ Per \_\_\_\_\_

## Organization Study Guide

All living things are made of CELLS. CELLS come together to form TISSUE. TISSUE comes together to form ORGANS. A group of similar ORGANS work together to form ORGAN SYSTEMS and all of the ORGAN SYSTEMS in a body form the ORGANISM.

Example: Nerve CELL---Nervous TISSUE---Brain is the ORGAN----Brain and spinal cord form the ORGAN SYSTEM and the digestive, nervous, skeleton etc. systems form the ORGANISM

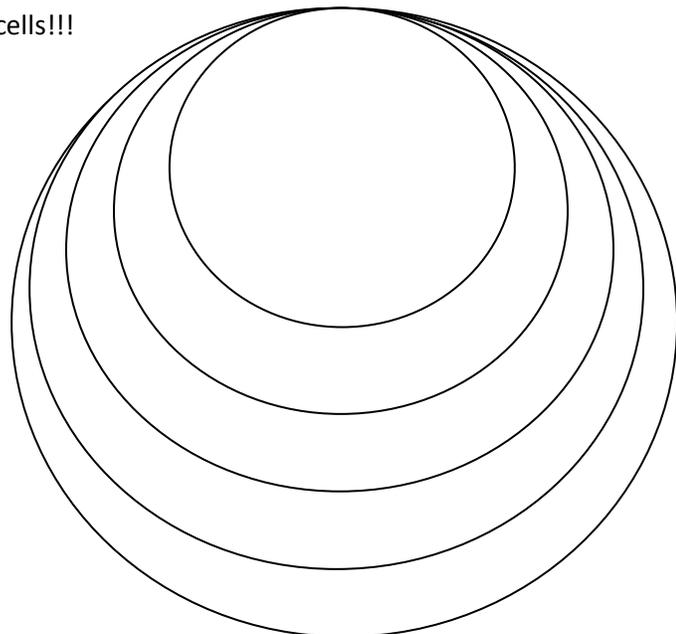
Example: Stomach CELL---Muscle TISSUE and Smooth TISSUE----Stomach is the ORGAN—Stomach and intestines and colon form the ORGAN SYSTEM-- and the digestive, nervous, skeleton etc. systems form the ORGANISM

SYSTEM	ORGANS	TISSUES Examples	CELL Examples	FUNCTION OF SYSTEM
Nervous	Brain , Spinal Cord, Nerves	Nervous	Nerve Cell	To transmit electrical signals throughout the body
Digestive	Mouth, Esophagus, Stomach, Small Intestine, Large Intestine, Rectum	Smooth and Muscle	Stomach or Liver Cell	To break down and absorb food.
Skeletal	Bones (there are 206)	Bone Tissue	Bone Cell	To give structure and support, to make blood, and store calcium
Respiratory	Lungs, Trachea, Diaphragm	Alveoli, Lung Tissue	Lung Cell	To take in oxygen and release carbon dioxide
Circulatory	Heart, Veins, Arteries	Smooth Tissue, cardiac tissue, muscle tissue	Muscle cell or cardiac cell	To transport food, water, chemicals, waste and gasses throughout the body
Excretory (Urinary)	Bladder and Kidneys	Kidney Tissue	Kidney Cell	To filter the blood and excrete waste as urine

Know the pathway food touches: Mouth-esophagus-stomach-small intestine-blood stream or large intestine-rectum  
(The following are used in digestion but food does not touch: liver, pancreas, gall bladder)

A cat is an organism---It has a digestive system---Which is made up of organs like the stomach—which is made of tissue like smooth and muscle tissue—which is made of cells!!!

If the inner most circle represents cells, fill in the rest of the circles.



X \_\_\_\_\_

My child studied for a least 15 minutes and taught someone in our family about the information in this unit.