

Name _____

Web-Quest – Notes/Research Guide

Levels of Organization

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Cells: Level One

Within a multicellular organism there is a _____.

Division of labor means that the work of keeping the organism alive is divided among the different parts of the body. Each part has a _____ job to do.

The arrangement of specialized parts within a living this is sometimes referred to as _____. Cells of course, are the _____ level of organization.

Tissues: Level Two

In any multicellular organism, _____ rarely work alone. Cells that are _____ in structure and function are usually joined together to form _____. Tissues are the _____ level of organization.

Bone cells in your body form bone tissue. Blood cells in your body form blood tissue.

Organs: Level Three

Tissues are further organized into _____, the _____ level of organization in living things. Organs are groups of different tissues that work together. Your heart, for example, is made up of _____ tissue, _____ tissue, and _____ tissue. You are probably familiar with the names of many of the body organs. The brain, _____, kidneys, and _____ are some examples.

Organ Systems: Level Four

Like cells and tissues, organs seldom work _____. They “cooperate” with one another and form specific _____. Organ systems are the _____ level of organization in living things. An organ system is a _____ of organs working together to perform a specific function for the organism. An example would be your digestive system. It is made up of several organs such as your esophagus, stomach, and intestines.

Organisms: Level Five

_____ are an organism. Dogs, trees and buttercups are also organisms. Even a unicellular (one celled) bacterium is an organism. An organism is an entire _____ that carries out all the basic life functions. The organism is the _____ level of organization.

_____ → tissues → organs → _____ → _____ --
each level of organization interacts with every other level. The smooth functioning of a complex _____ is the result of all its various parts _____ together.