

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Life Science

Period: \_\_\_\_\_

Section 2.1: *Multicellular organisms meet their needs in different ways*

Multicellular organisms have cells that are specialized. (pg. C43)

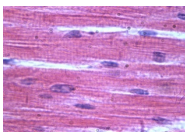
1. All of the functions of life in single-celled organisms are performed by \_\_\_\_\_.
2. In multicellular organisms, the cells are specialized, meaning that \_\_\_\_\_  
\_\_\_\_\_  
a. Blood cells \_\_\_\_\_  
b. Nerve cells \_\_\_\_\_

Levels of Organization (pg. C44)

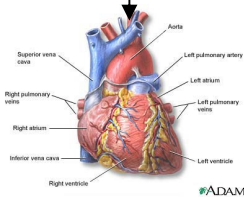
Cell



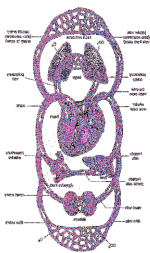
Tissue



Organ



Organ System



From smallest to largest:

1. \_\_\_\_\_ - are specialized in multicellular organisms for a specific function  
Ex: nerve cells, muscle cells
2. \_\_\_\_\_ - cells of the same type that work together  
Ex: muscle tissue
3. \_\_\_\_\_ - structure made up of different tissues  
Ex: heart (made of muscle and nerve tissue)
4. \_\_\_\_\_ - different organs that work together and have a common function  
Ex: circulatory system (heart and blood vessels work together)
5. \_\_\_\_\_ is made of cells, tissues, organs, and organ systems  
Ex: You!

In other words, an organism is made of organ systems. Organ systems are made of organs. Organs are made of tissue. And, tissue is made up of specialized cells!

Organ Systems and the Organisms (pg. C45)

1. Different organ systems take care of different needs:

Organ system	Function
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a. Nervous System: \_\_\_\_\_  
\_\_\_\_\_

b. Muscular System: \_\_\_\_\_  
\_\_\_\_\_

c. Respiratory System: \_\_\_\_\_  
\_\_\_\_\_

d. Circulatory System: \_\_\_\_\_  
\_\_\_\_\_

e. Digestive System: \_\_\_\_\_  
\_\_\_\_\_

2. Some organ systems work together to perform a function

a. \_\_\_\_\_ and \_\_\_\_\_ systems work together to deliver oxygen and remove carbon dioxide

Multicellular organisms are adapted to live in different environments. (pg. C46)

1. Adaptation: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Identify how each of the following foxes are adapted to their individual environments:

a. Fennec - \_\_\_\_\_  
\_\_\_\_\_

b. Arctic Fox - \_\_\_\_\_  
\_\_\_\_\_

c. Red Fox - \_\_\_\_\_  
\_\_\_\_\_