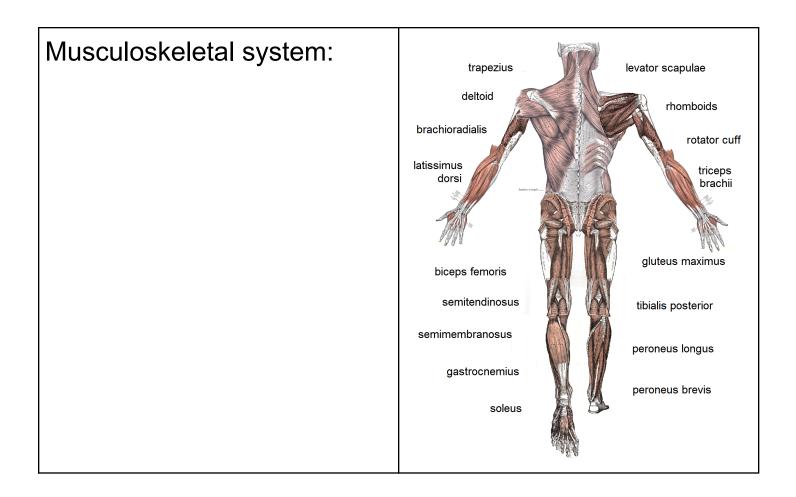
The Hierarchy of Structure in Animals

Just like the Amoeba, or single-celled animals, all multicellular animals need to perform some basic functions to keep themselves alive;

Organ systems help divide up the various functions to be accomplished so they can specialize in each of these activities.

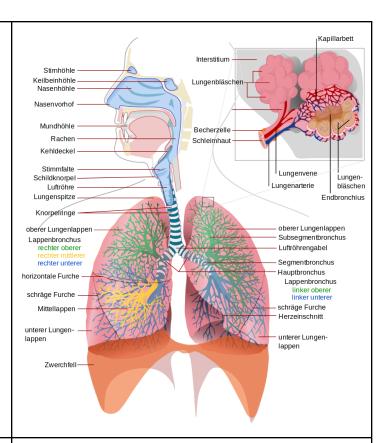
Organization level:	Made of:
Organism	
Organ systems	
Organs	
Tissues	
Specialized cells	

A few of the main organ systems within animal bodies include;

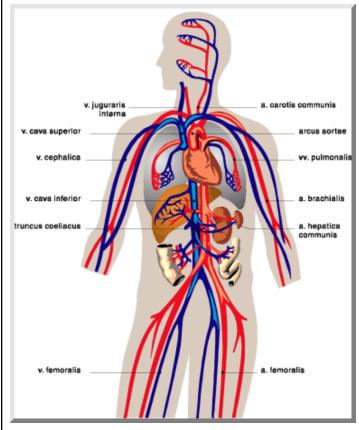


Nervous system: Cerebrum Medulla spinalis Plexus brachialis Nervus Nervus intercostalis Nervus radialis Nervus subcostalis Nervus medianus Plexus lumbalis Nervus Biohypogastricus Plexus Nervus sacralis genitofemoralis Nervus femoralis Nervus abturatorius Nervus pudendus Nervus ulnaris: Nervus ischiadicus Rami musculares Nervus peroneus nervus femoralis communis Nervus saphenus Nervus fibularis Nervus tilbialis profundus Nervus fibularis superficialis Digestive System: Mouth **Palate** Uvula Tongue Teeth Pharynx Salivary Esophagus glands Sublingual Submandibular Parotid Liver Stomach Gallbladder **Pancreas** Common Pancreatic duct bile duct Large intestine Small intestine **T**ansverse colon Duodenum Jejunum Ascending Ileum colon Cecum Descending dolon Appendix -Sigmoid colon Rectum

Respiratory system:



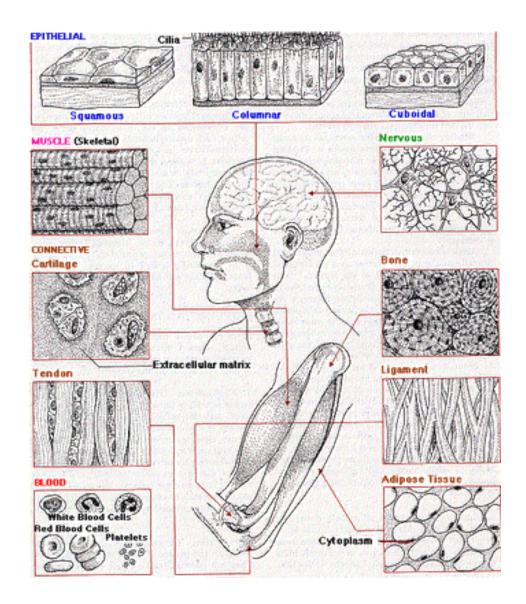
Circulatory system:



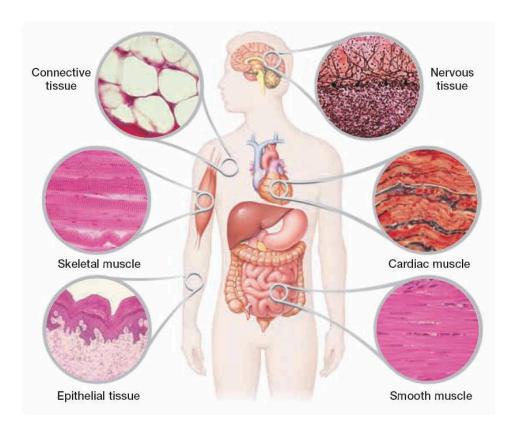
Organs –	what	do	they	do?
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Tissues: jot down the list of different tissues from page 76.

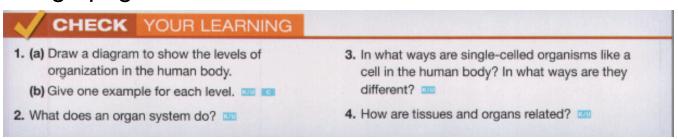
Tissue type	function



Human Body Tissues



Assign page 69



Page 71

CHECK YOUR LEARNING

- Choose a function that all living things must perform. Describe the organ system that performs this function.
- 2. Why are organs such as the lungs, heart, and stomach made up of many different kinds of specialized cells rather than only one kind?
- Most animals have many of the same organ systems.
 - (a) Why do you think there are not many different kinds of organs and systems when animals are so different?
 - (b) How might life in different environments affect these basic organ systems?

Page 76



CHECK YOUR LEARNING

- List the four types of tissue and give an example of each. Describe its function and where it can be found.
- Name and describe the three types of muscle.Give an example of each type.
- How is connective tissue different from the other kinds of tissues? Give an example.
- 4. Why is it important that some types of muscles can contract and relax without our having to think about it?