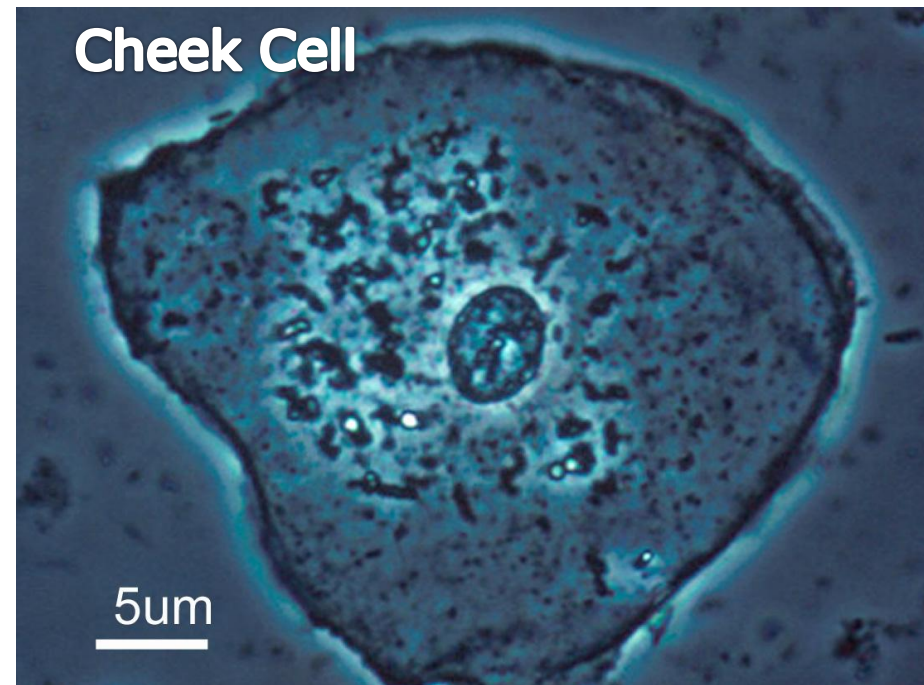


7.5.a

Students know plants and animals have levels of organization for structures and function, including cells, tissues, organs, organ systems, and the whole organism.

Our bodies are organized in a very specific way.

1st level is the cell it is the basic unit of life and the smallest part of the body.



2nd level - tissue

4 types

1. Connective

2. Epithelial

3. Muscle

4. Nervous

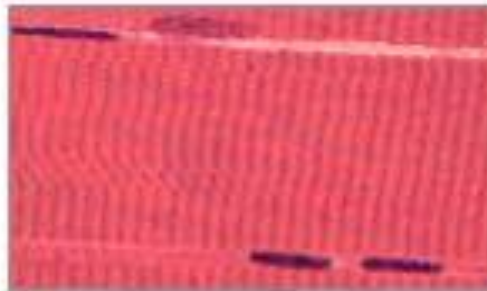
Four types of tissue



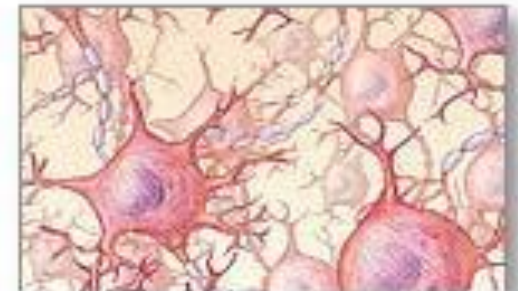
Connective tissue



Epithelial tissue



Muscle tissue

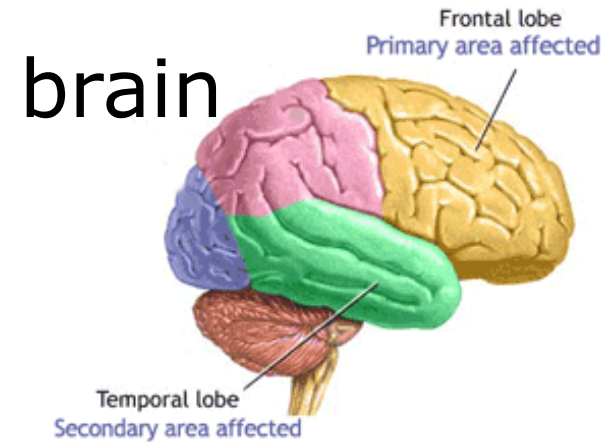
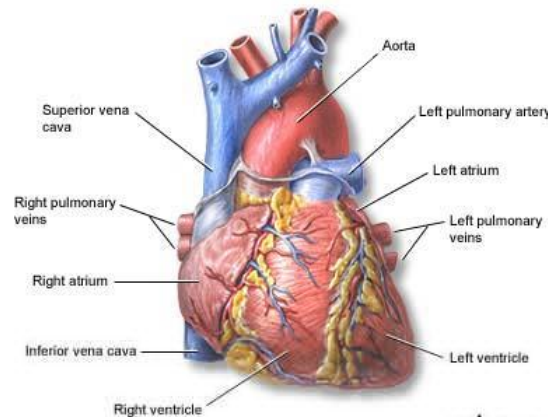


Nervous tissue

3rd – level organ

Organs are made of two different types of tissues and perform a **specific** function.

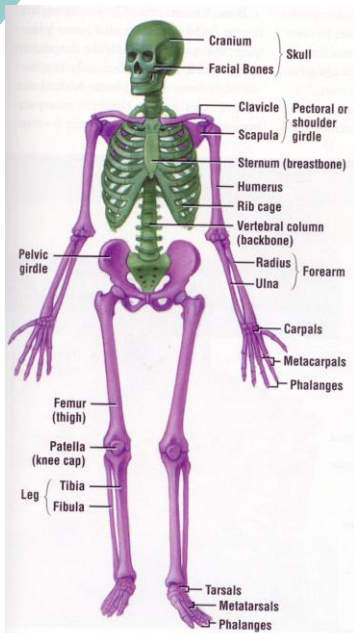
Heart made of cardiac muscle and smooth muscle tissue.



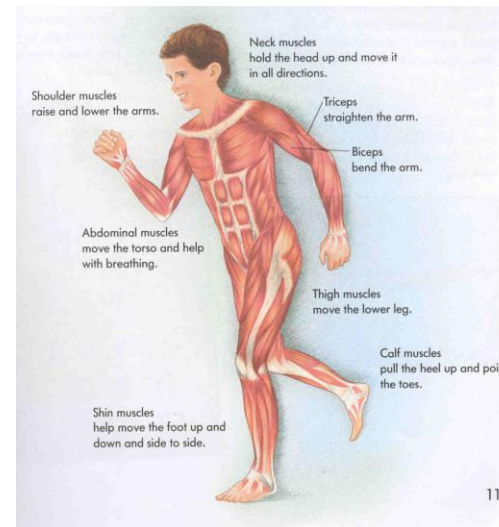
Made of nervous and connective tissue.

4th level Organ System

Organ systems are made of up organs to perform a specific function.



Skeletal system



Muscular system

5th level Organism

An organism is anything that can live on it own.



You will be doing a timed pair share with your elbow partner. Start with the person closest to the door. You will have 30 sec. each.

1. Name the levels of organization in our body? (name as many as you can)

Cell, tissue, organ, organ system, and organism

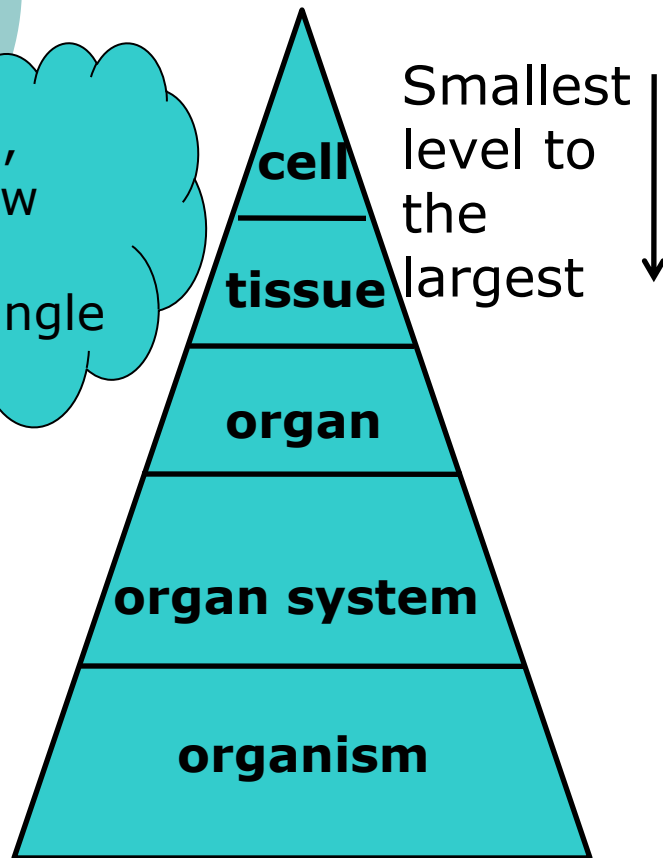
2. Give two examples of an organ?

Lung, heart, brain, stomach, kidney, small intestine, large intestine.



Notes Ch. 13 Body Organization

Levels of organization



1. Cell – smallest living thing and the building blocks of all living things.

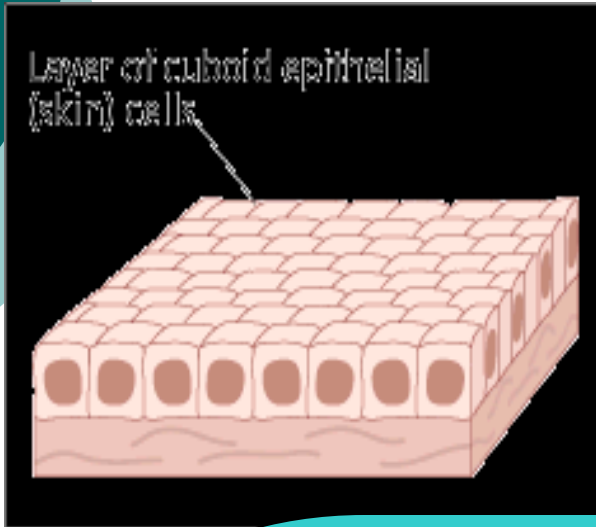
2. Tissues – a group of similar cells working together

3. Organs – two or more tissues working together.

4. Organ system – organs working together

5. Organism – anything that can live on its own.

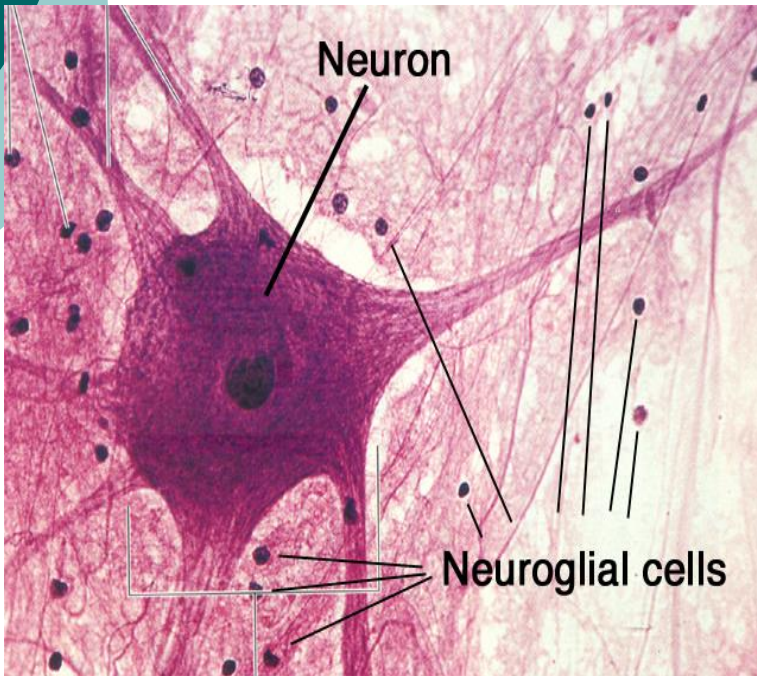
Types of tissue



Yes, draw the picture of each type of tissue!!!

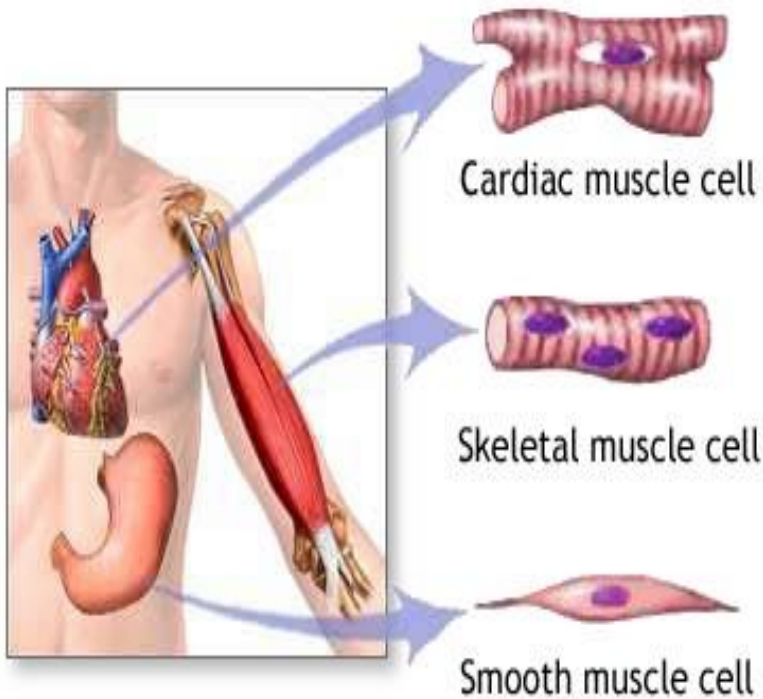
1. Epithelial tissue
– covers and protects tissues underneath.
The surface of your skin is epithelial tissue.

Types of tissue



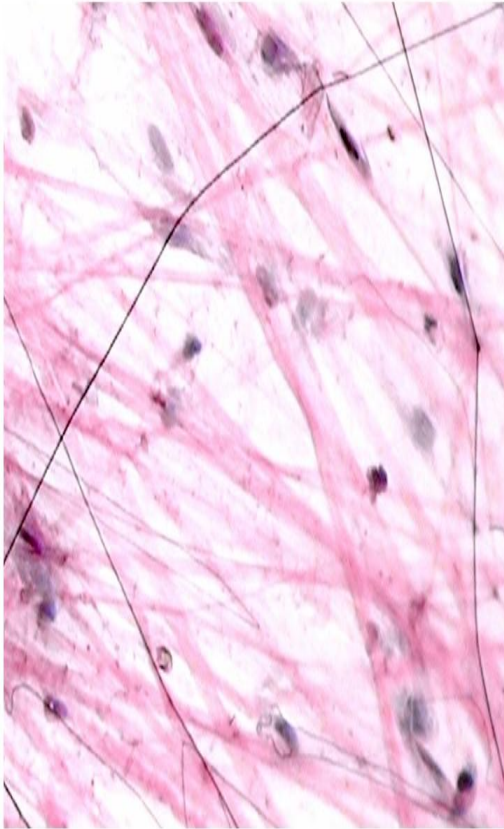
2. Nerve tissue – sends electrical signals through the body; found in the brain, nerves and sense organs.

Types of tissue



3. Muscle tissue – is made of cells that can contract and relax to produce movement.

Types of tissue

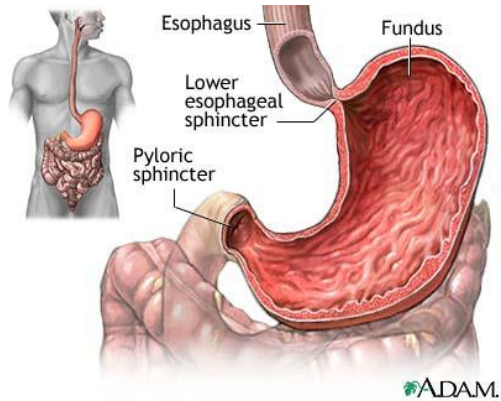


4. Connective tissue – joins, supports, protects, insulates, nourished, and cushions organs. It also keeps organs from falling apart.

Organs



lungs

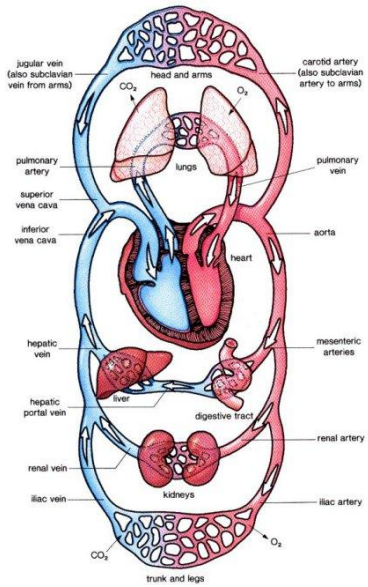


stomach

Organs – made of two or more types of tissues.

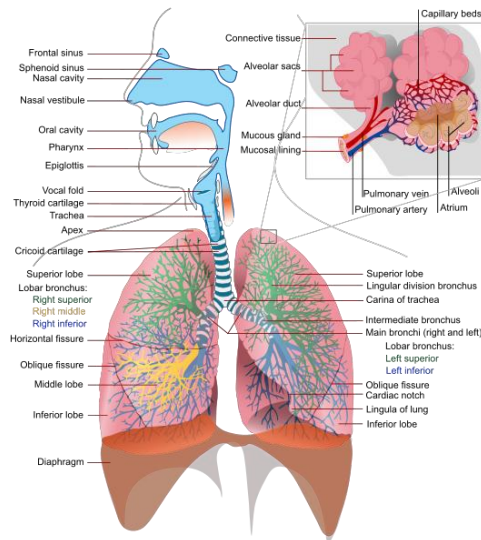
Organ System

Cardiovascular system



Organ System – a group of organs that work together to perform a specific function.

Respiratory system



Organisms



Organism –
anything that can
live on its own.



Review Questions

You will answer these questions with your elbow partner. You will be starting with person 1. (closest to the door) You will have 30 sec.

1. Name a cell that would be found in your body. (name as many as you can)

Blood cell, muscle cell, skin cell, cheek cell, hair cell, nerve cell, and so on.

Review Questions

The students will answer these questions with your elbow partner. You will be starting with person 2. You will have 30 sec.

1. Name a tissue that would be found in your body. (name as many as you can.

Muscle tissue, connective tissue, nervous tissue, and epithelial tissue.

Review Questions

You will answer these questions with your elbow partner. You will be starting with person 1. (closest to the door) You will have 30 sec.

1. Name an organ that would be found in your body. (name as many as you can.

Brain, heart, lung, stomach, liver, kidney, skin, bones, and so on.

Review Questions

You will answer these questions with your elbow partner. You will be starting with person 2. You will have 30 sec.

1. Name an organ system that would be found in your body. (name as many as you can.)

Circulatory system, respiratory system, digestive system, skeletal system, nervous system, and so on.

Review Questions

You will answer these questions with your elbow partner. You will be starting with person 1. (closest to the door) You will have 30 sec.

1. Name an organism that would be found in your body. (name as many as you can.

Person, dog, cat, bird, plant, and so on.

Levels of Organization Booklet



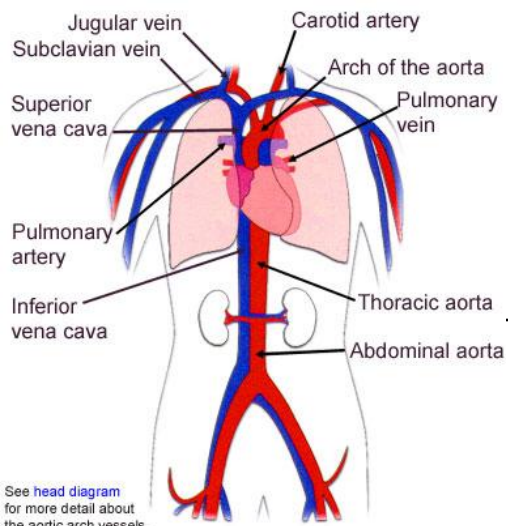
1. Fold paper lengthwise so that you have a 3 cm tab. Add title Body System.

This is the tab 3 cm.

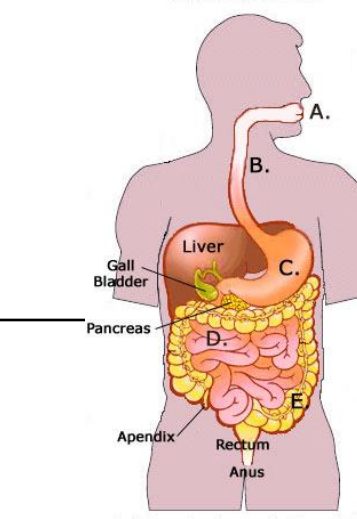
2. Divide the other side of the paper in to five sections 5.5 cm in length.

3. Draw a line on the paper and then cut it **ONLY to the fold. Write the name of a each body level on that tab.**

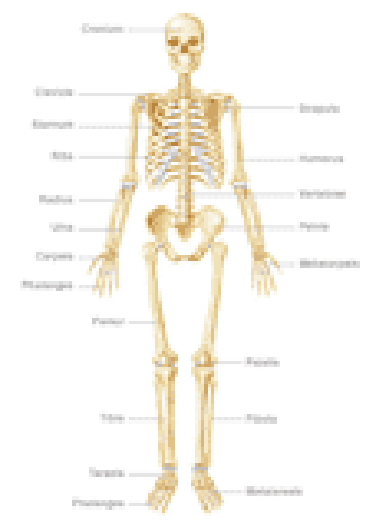
4. On the inside explain each level, give 3 examples and draw a picture and color each example.



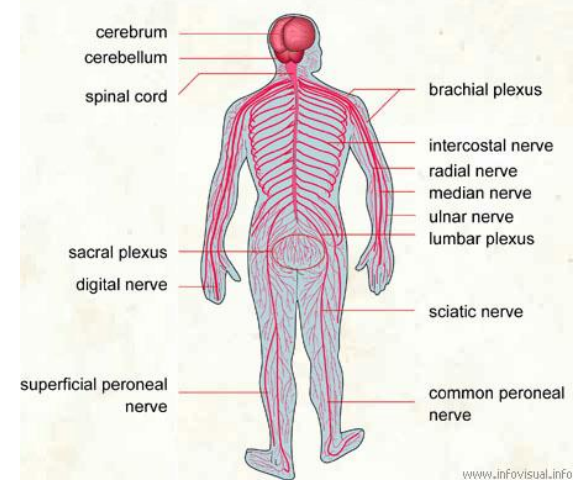
See head diagram for more detail about the aortic arch vessels.



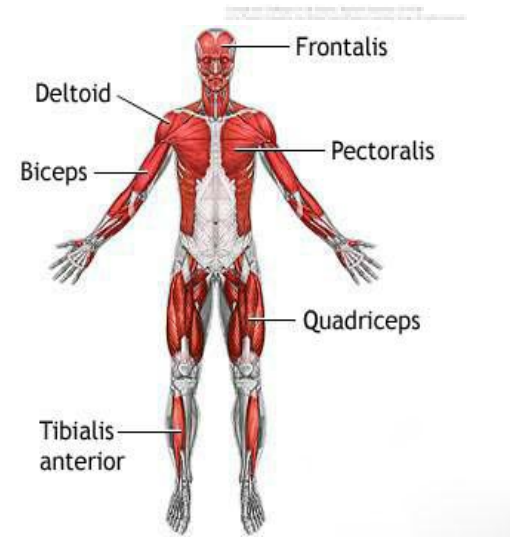
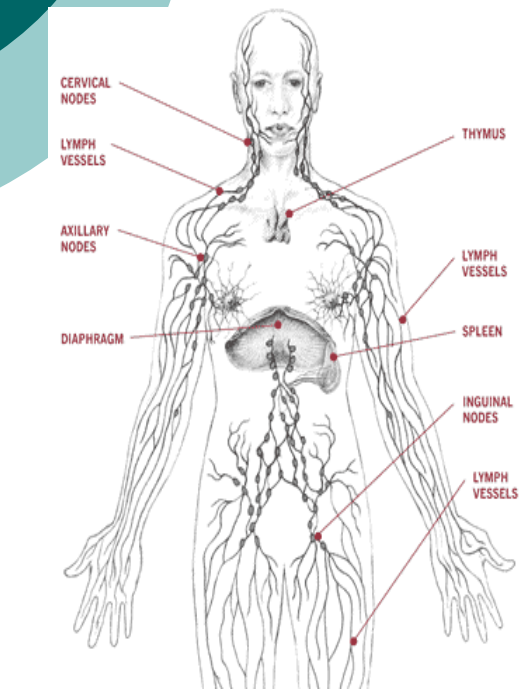
The Skeletal System



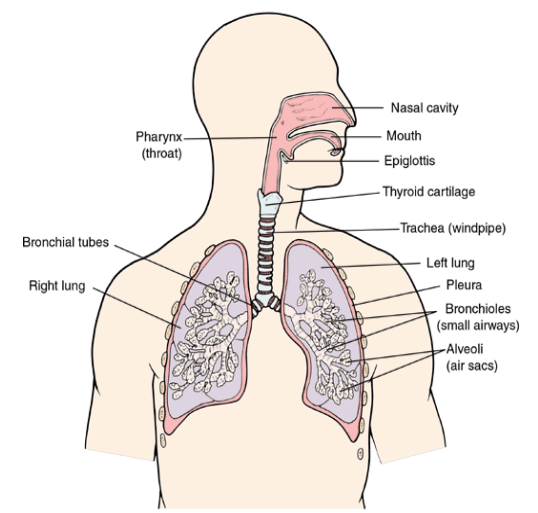
NERVOUS SYSTEM



www.infovisual.info



Respiratory System



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