

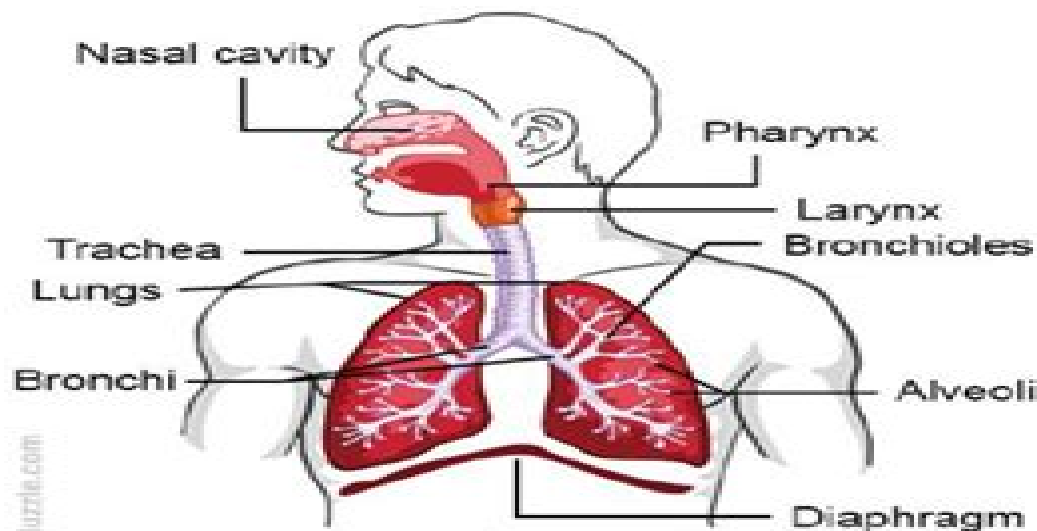
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THE RESPIRATORY SYSTEM

FIRST VIDEO: THE RESPIRATORY SYSTEM (EducationWithVision)

Humans breathe in oxygen and breathe out carbon dioxide; a process known as respiration. The respiratory system includes the nose, throat, voice box, windpipe, and lungs. At the top of the respiratory system, the nostrils bring air into the nasal cavity where it's filtered, warmed and moistened.



The windpipe divides into two branches, called bronchi, and each one of these enters one of the two lungs of the body. Each branch resembles the limbs of a tree dividing into smaller, finer branches called bronchioles. These end in tiny air sacs called alveoli.

What are alveoli?

Tiny structures that enable fresh air to get to the air sacs, which are surrounded by tiny blood vessels, or capillaries. The oxygen passes through these air sacs and travels through the capillary walls into the bloodstream. At the same time, carbon dioxide transfers from the bloodstream into the air sacs where it gets breathed out of the body.

What are cilia?

Cilia are tiny hairs that protect the nasal passageways and filter out dust and other particles that enter the nose through the breathed air.

What is the trachea?

A 2-3cm tube that extends downwards from the bottom of the larynx for about 12cm, it is made strong by stiff rings of cartilage. It is lined with tiny hairs that sweep out foreign particles and fluids.

What is the pharynx?

The pharynx is where the two airways of the nose and mouth meet up. It carries both food and air.

What is the larynx? Where is it located?

The larynx is where our vocal cords are, and is located at the top of the trachea

Bogglesworlde's Respiratory System Answer Key

Christian Drosten



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