

## **Anatomy & Physiology by Visible Body**

## Visual and interactive learning objectives available for teaching the respiratory system

Pick a learning objective and <u>request a trial</u> that includes the animations and interactive virtual 3D models for teaching that content!

INTERACTIVE LESSON ASSET	CHAPTERS AND LEARNING OBJECTIVES
	34. Introduction: Respiratory System
34.1, 34.2	Identify and describe the basic functions of respiratory system structures.
32.3	Describe pulmonary ventilation and identify the structures involved.
34.4	Describe external respiration and identify the structures involved.
34.5	Describe internal respiration and identify the structures involved.
	35. Upper Respiratory System
35.1, 35.6	Locate and identify structures that make up the upper respiratory system.
35.2, 35.3, 34.4, 35.5	Locate and identify structures of the nose and nasal cavity.
35.7, 35.8, 35.9	Describe the functions of the nasal mucosa.
35.10	Describe the process and function of sneezing.
35.11, 35.12	Describe the process of olfaction.
35.13	Locate and identify structures of the pharynx.
35.14	Describe the function of the epiglottis.
35.15, 35.16	Locate and identify structures of the larynx.
35.17	Describe the process of phonation.
35.18	Describe the relationship between vocal fold tension and sound pitch.
	36. Lower Respiratory System
36.1	Locate and identify structures that make up the lower respiratory system.
36.2, 36.9	Locate and identify the airways of the lower respiratory system.
36.3	Describe the structure and function of the trachea.
36.4	Describe bronchodilation and bronchoconstriction.
36.5	Describe the location and shape of the lungs in relation to surrounding organs.
36.6, 36.7, 36.8	Locate and identify each lobe and external feature of the lungs.
36.10	Describe the location and structure of alveoli.
36.11	Describe the location and functions of type I alveolar cells, type II alveolar cells, and alveolar macrophages.
36.12	Describe the internal structures of the lungs.
36.13	Locate and identify the vessels of pulmonary circulation.
	37. Respiration
37.1	Explain how Boyle's Law relates to breathing.
37.2	Describe pulmonary ventilation and identify the structures involved.
37.3	Locate and identify the muscles used during normal and forced inhalation.
37.4	Locate and identify the muscles used during normal and forced exhalation.
37.5	Explain how the respiratory and circulatory systems work together during external respiration.
37.6	Describe external respiration and identify the structures involved.
37.7	Using Dalton's Law, explain why oxygen and carbon dioxide are exchanged between the lungs and the bloodstream.
37.8, 37.9	Describe internal respiration and identify the structures involved.
37.10	Explain how imbalances of oxygen and carbon dioxide in the bloodstream affect respiratory rate.
37.11	Locate and identify the nervous system structures that regulate respiration.