

# Respiratory Anatomy Labeling Quiz Answer Key PDF

Respiratory Anatomy Labeling Quiz Answer Key PDF

Disclaimer: The respiratory anatomy labeling quiz answer key pdf was generated with the help of StudyBlaze Al. Please be aware that Al can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

What is the primary fu	unction of the nas	al cavity?
------------------------	--------------------	------------



- C. Air filtration and humidification ✓
- D. Blood circulation
- C. Gas exchange

#### Which structure connects the pharynx to the trachea?

- A. Larynx ✓
- C. AlVeoli
- D. Diaphragm
- C. Bronchi

#### How many lobes does the left lung have?

- A. One
- C. Three
- D. Four
- C. Two ✓

#### Describe the pathway of air from the nasal cavity to the alveoli.

Air enters the nasal cavity, passes through the pharynx, larynx, trachea, bronchi, bronchioles, and finally reaches the alveoli.

## Which of the following are functions of the diaphragm in respiration?\*\* (Select all that apply)

- A. Assists in inhalation ✓
- C. Produces digestive enzymes





$D^{A}$	Assis	ts in	exhal	latior	1 🗸
$m u$ . $\it r$	73313	10 11	ı Calla	ıatıvı	

C. Separates thoracic and abdominal cavities ✓

#### What physiological changes occur in the diaphragm during inhalation and exhalation?

The diaphragm contracts and moves downward during inhalation, and relaxes and moves upward during exhalation.

#### Identify two common respiratory disorders and explain their impact on the respiratory system.

Asthma and chronic obstructIVE pulmonary disease (COPD) are two common respiratory disorders that affect the respiratory system by causing inflammation, narrowing of the airways, and difficulty in breathing.

#### Which structures are directly involved in the process of gas exchange?\*\* (Select all that apply)

- A. AlVeoli ✓
- C. Bronchioles
- D. Trachea
- C. Capillaries ✓

#### What structure serves as the entry point for air into the respiratory system?

- A. Mouth
- C. Trachea
- D. Larynx
- C. Nose ✓

#### Discuss how the structure of the alveoli facilitates efficient gas exchange with the blood.

The alveoli are tiny, balloon-like structures in the lungs that have very thin walls (one cell thick) and are surrounded by a dense network of capillaries, which facilitates efficient gas exchange by allowing oxygen to diffuse into the blood and carbon dioxide to diffuse out quickly.

## Which muscle is essential for breathing?

A. Pectoral muscles

Your AI Tutor for interactive quiz, worksheet and flashcard creation.

- C. Abdominal muscles
- D. Trapezius
- C. Diaphragm ✓

#### What is the main function of the trachea?

- A. Gas exchange
- C. Blood filtration
- D. Nutrient absorption
- C. Air passage to the bronchi ✓

#### Explain the role of the pleura in respiratory function and how it aids in lung movement.

The pleura consist of the visceral pleura, which covers the lungs, and the parietal pleura, which lines the chest wall. They create a pleural cavity filled with pleural fluid that reduces friction and allows the lungs to expand and contract easily during respiration.

#### What is the role of the pleura?

- A. Produces mucus
- C. Filters air
- D. Facilitates gas exchange
- C. Protects the lungs and reduces friction ✓

#### Which of the following structures are part of the lower respiratory tract?\*\* (Select all that apply)

- A. Trachea ✓
- C. AlVeoli ✓
- D. Pharynx
- C. Bronchi ✓

# How do the structures of the upper respiratory tract contribute to protecting the lower respiratory tract from infections?

The upper respiratory tract protects the lower respiratory tract by filtering out pathogens and particles through mucus and cilia, warming and humidifying the air, and providing immune responses.



Which part of the respiratory system is primarily responsible for gas exchange?
A. Bronchi
C. Trachea
D. Pharynx
C. AlVeoli ✓
Which of the following are components of the upper respiratory tract?** (Select all that apply)
A. Nasal cavity ✓
C. Larynx ✓
D. AlVeoli
C. Pharynx ✓
Which structures are involved in protecting the respiratory system from pathogens?** (Select all that apply)
A New Hoster 7
A. Nasal hairs ✓
A. Nasai nairs ✓ C. Cilia ✓
C. Cilia ✓
C. Cilia ✓  D. AlVeoli
C. Cilia ✓  D. AlVeoli
C. Cilia ✓  D. AlVeoli
C. Cilia ✓  D. AlVeoli  C. MUCUS ✓
C. Cilia ✓ D. AlVeoli C. MUCUS ✓  What are the functions of the respiratory system?** (Select all that apply)
C. Cilia ✓ D. AlVeoli C. MUCUS ✓  What are the functions of the respiratory system?** (Select all that apply)  A. Oxygen delivery ✓