Name: _____ Date: _____

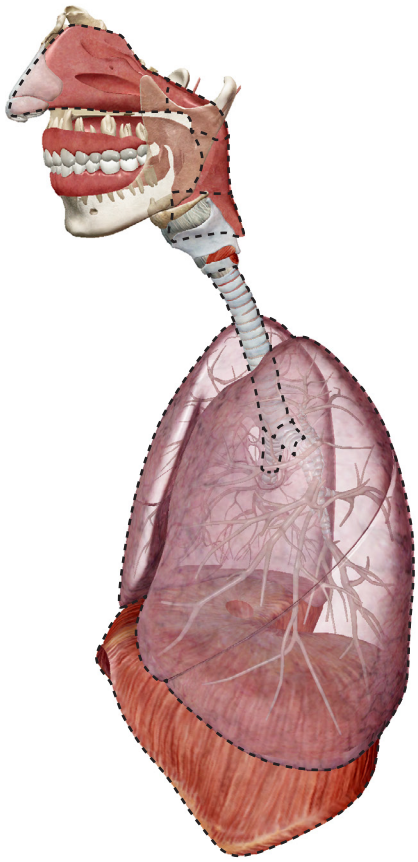
Activity 1: Respiratory System Lab

1. Launch the view!

- If you're already in AR mode: point your camera* at the image below.
- If you're not in AR mode:
  - Open Visible Body Suite.
  - Search for and select the view "Respiratory System."
  - **Launch AR mode.**

2. Fill in the blanks.

- Find the structures listed in the word bank.
- Read the definitions, then fill in the blank with the correct respiratory system structure from the word bank.



** Augmented Reality (AR) is supported on many iPhones, iPads, and Android mobile devices. See details at visiblebody.com/ar*

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Name: _____ Date: _____

Word bank:

- Alveoli
- Bronchi
- Laryngopharynx
- Lungs
- Nasal cavity
- Nasopharynx
- Oropharynx
- Primary bronchi
- Trachea

The _____ is composed of the chambers of the internal nose that function as a part of the upper respiratory system.

The _____ is the most posterior part of the pharynx. It is shared by the respiratory system and the digestive system. The upper respiratory and upper digestive tracts diverge right after this structure. The front of this structure merges with the triangular entrance of the larynx.

The _____ conveys air between the upper and lower respiratory structures.

The _____ is a portion of the pharynx that begins at the rear of the nasal cavity and functions as an airway in the upper respiratory system. Its cavity always stays open, unlike the other parts of the pharynx.

The _____ are two organs that are responsible for gas exchange.

The _____ are the major airways of the lower respiratory system.

The _____ are the main sites of gas exchange, where oxygen is brought into the bloodstream and carbon dioxide is removed.

The _____ is a portion of the pharynx that is shared by the respiratory system and the digestive system. It functions as an airway in the upper respiratory system.

The _____ are the major airways of the lower respiratory system. They link the trachea with the right and left lungs. They are wrapped in rings of hyaline cartilage, and their interiors are lined with mucous membrane.

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Name: _____ Date: _____

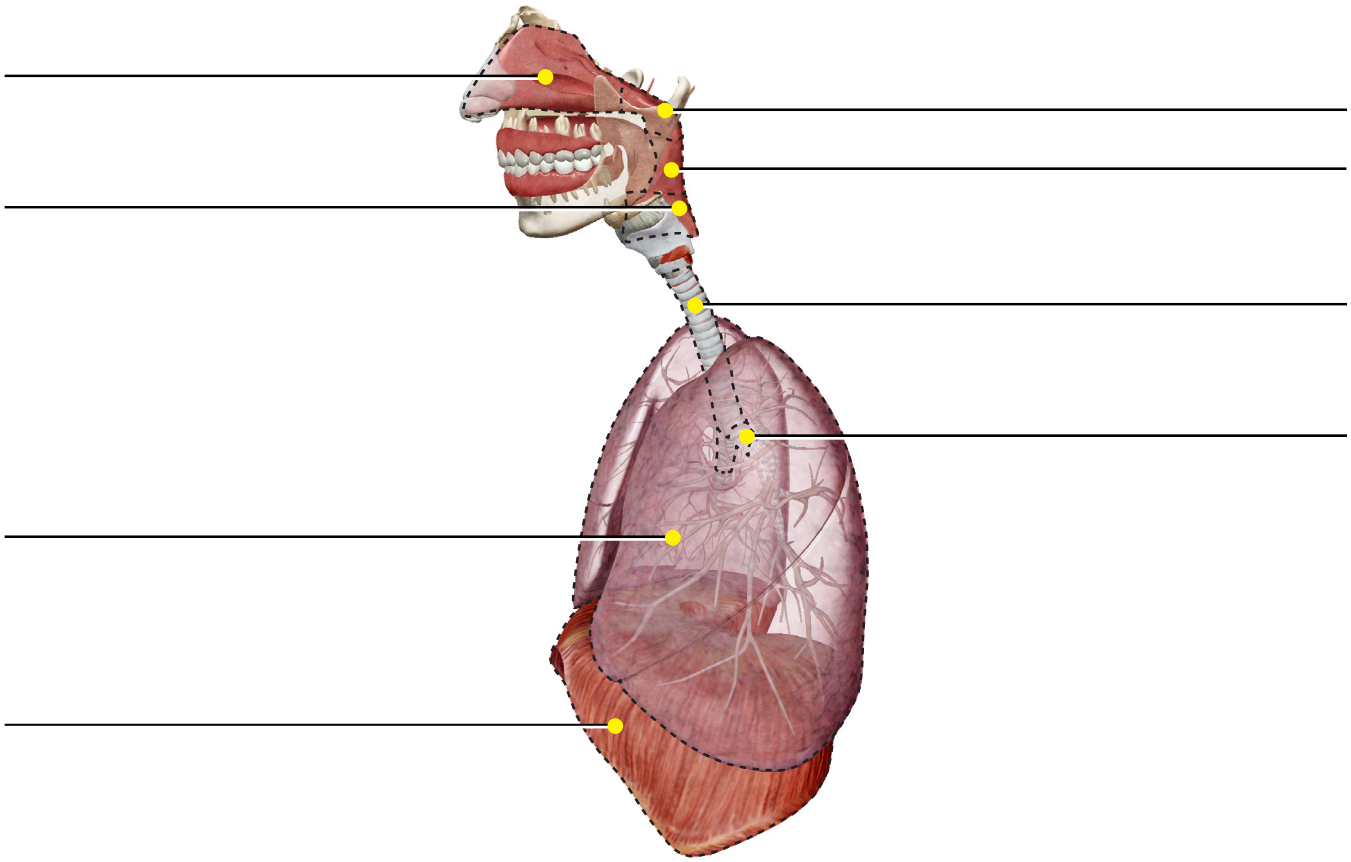
Activity 2: Respiratory System Lab

1. Launch the view!

- If you're already in AR mode: point your camera at the image below.
- If you're not in AR mode:
  - Open Visible Body Suite.
  - Search for and select the view "Respiratory System."
  - **Launch AR mode.**

2. Label the image.

- Explore the 3D model of the respiratory system to locate the anatomy in the structure list.
- Use the structure list to label the image.



Structure list:

1. Diaphragm
2. Laryngopharynx
3. Lungs
4. Oropharynx
5. Nasal cavity
6. Nasopharynx
7. Primary bronchus
8. Trachea

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Name: _____ Date: _____

Activity 3: Respiratory System Lab

1. Learn about respiration!

- Read the articles on the respiratory system: https://www.visiblebody.com/learn/respiratory.
- Fill in the blanks in the following statements.

In _____, air is inhaled through the nasal and oral cavities (the nose and mouth). Air moves through the pharynx, larynx, and trachea into the lungs. Then, it is exhaled, flowing back through the same pathway.

Inside the lungs, oxygen is exchanged for carbon dioxide waste through the process called _____. This respiratory process takes place through hundreds of millions of microscopic sacs called _____.

The bloodstream delivers oxygen to cells and removes waste carbon dioxide through _____.

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Name: _____ Date: _____

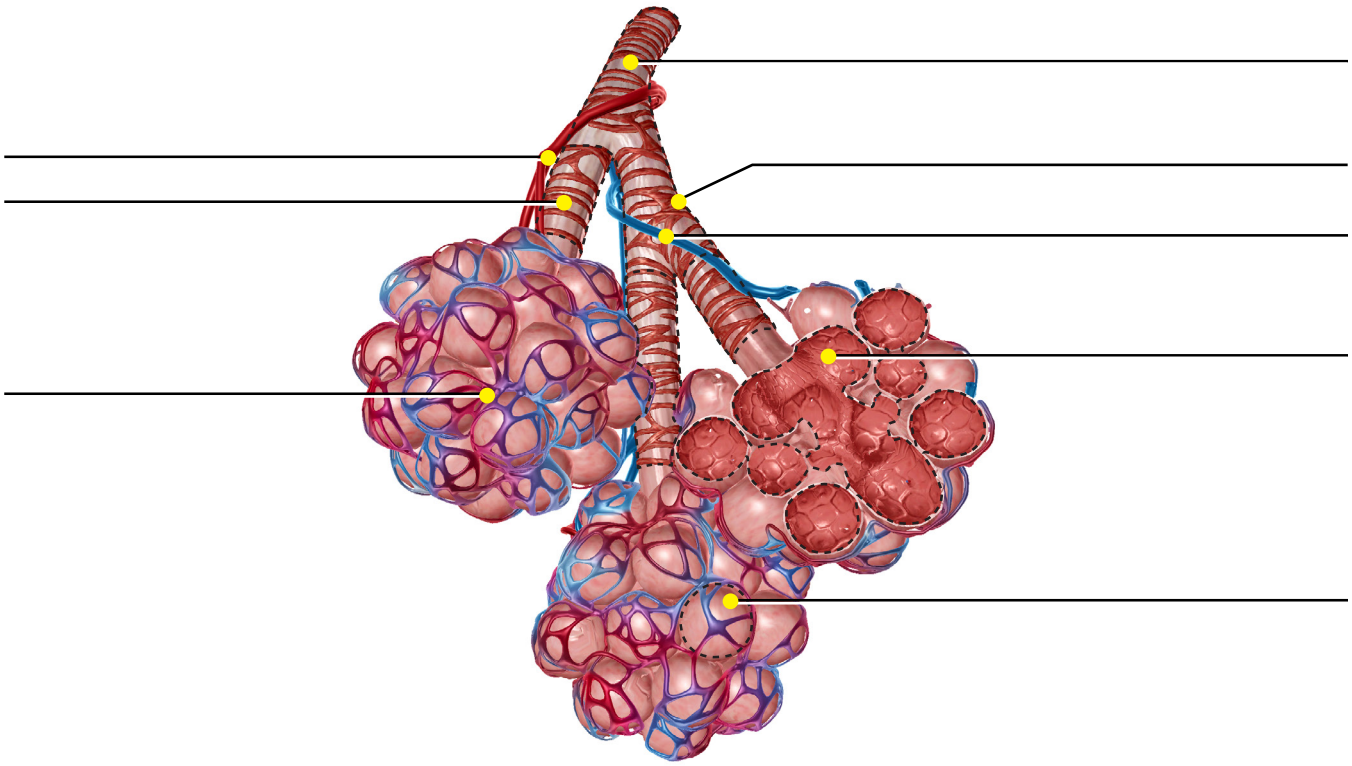
Activity 4: Respiratory System Lab

1. Launch the view!

- If you're already in AR mode: point your camera at the image below.
- If you're not in AR mode:
  - Open Visible Body Suite.
  - Search for and select the view "Alveolar Sacs."
  - **Launch AR mode.**

2. Label the image.

- Explore the 3D model of the alveolar sacs to locate the anatomy in the structure list.
- Use the structure list to label the image.



Alveoli are microscopic air sacs that are home to the main function of the respiratory system: carrying out gas exchange to bring oxygen into the body and remove carbon dioxide.

Structure list:

1. Alveolus
2. Alveolar cavities
3. Bronchiolar smooth muscle
4. Pulmonary artery
5. Pulmonary capillary beds
6. Pulmonary vein
7. Respiratory bronchiole
8. Terminal bronchiole

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