Lesson 12 - Respiratory system (Downloadable Student Document)

Science - Biology - Key Stage 3

Cell, Tissues and Organs

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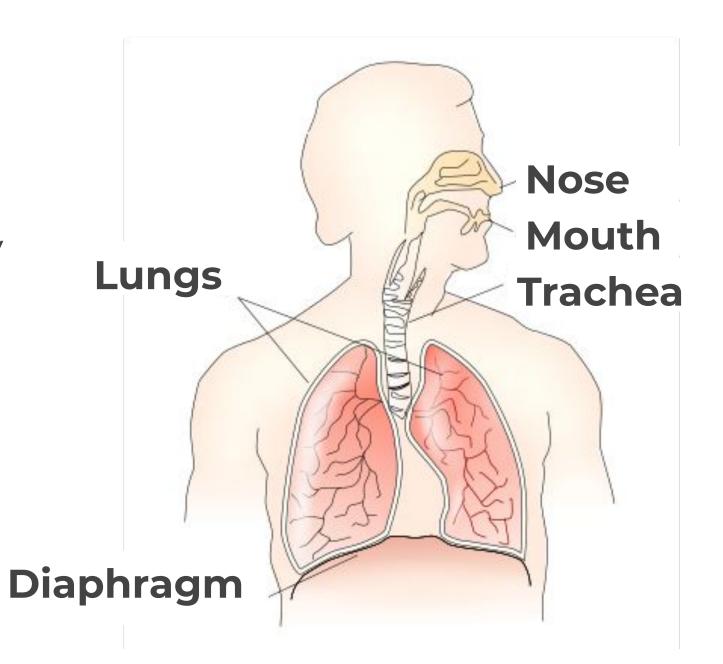


The respiratory system

Recap question

1. What is the job of the respiratory system?

2. Name the gases involved in the respiratory system.

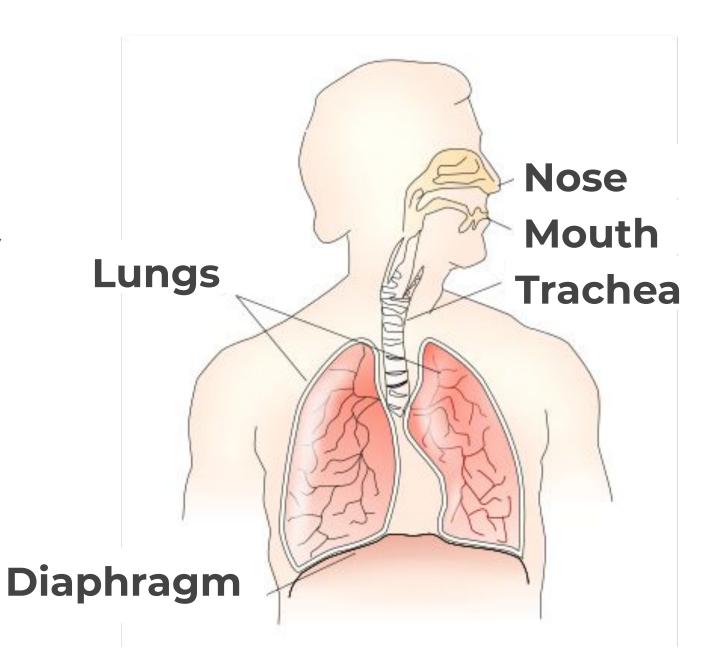




The respiratory system

Recap question

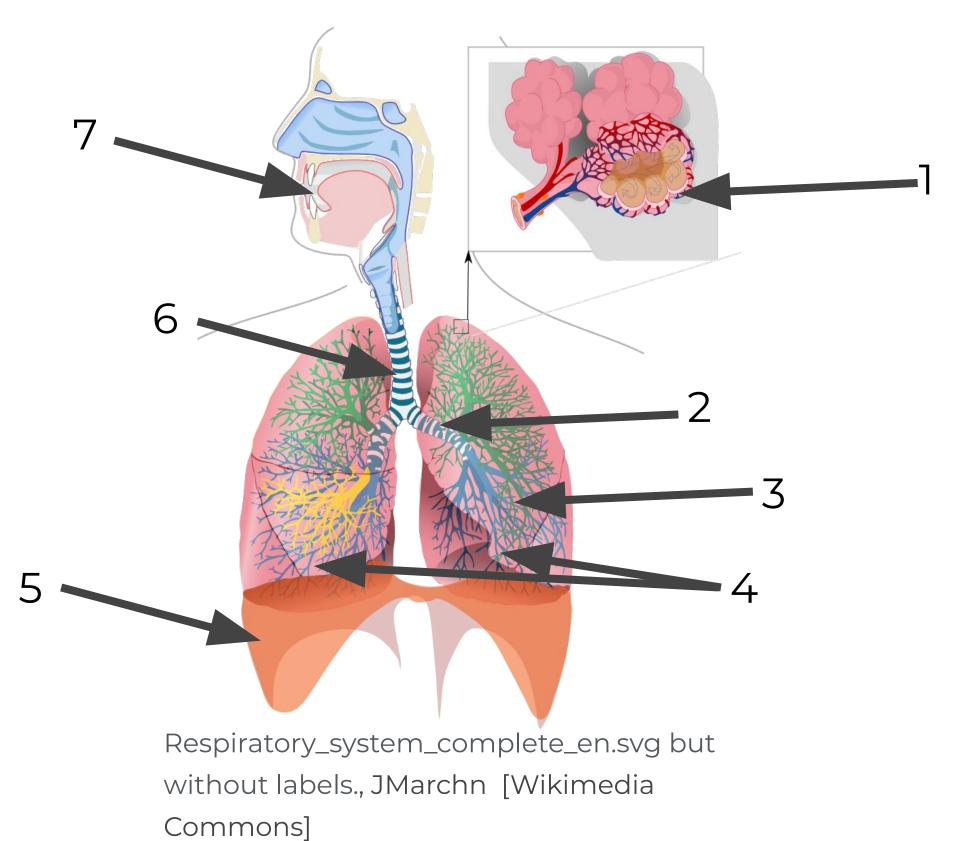
- What is the job of the respiratory system?
 Gas exchange
- 2. Name the gases involved in the respiratory system.
 - Oxygen and carbon dioxide





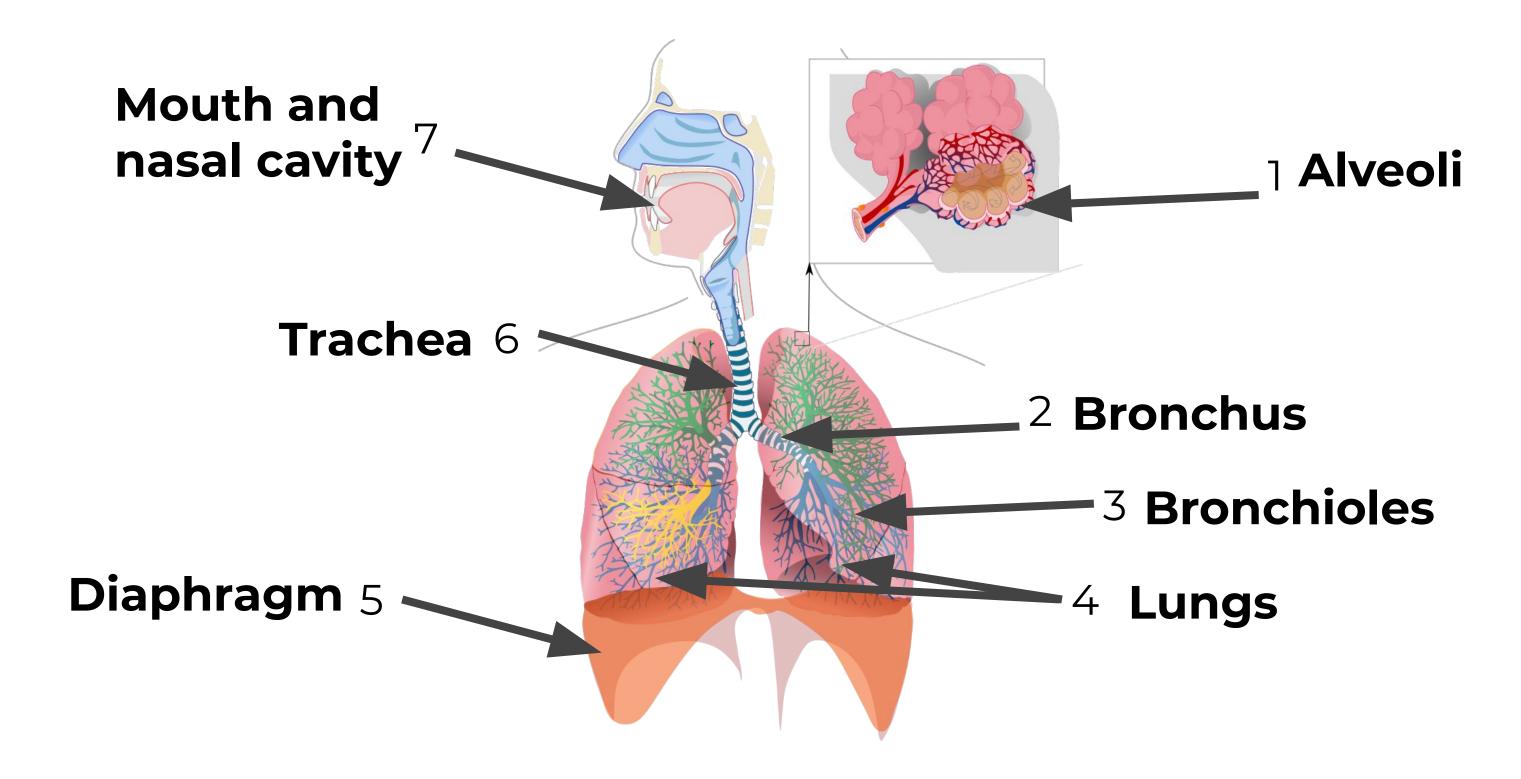
Label the diagram

- Mouth and nasal cavity
- Bronchioles
- Bronchus
- Diaphragm
- Alveoli
- Lungs
- Trachea





Label the diagram





Complete the following gap fill activity:

The lungs are p	rotected by	Our body takes
in	and releases	when
breathing. The	orocess of taking in c	xygen into the lungs
is known as	The process of releasing	
carbon dioxide	from the lungs is kno	own as
Alveolus are sui	rounded by	•
Key words: capi	illaries, oxygen, carbo	on dioxide, rib cage,
exhalation, inha	alation	



Complete the following gap fill activity:

- 1. The lungs are protected by the rib cage.
- 2. Our body takes in oxygen and releases carbon dioxide when breathing.
- 3. The process of taking in oxygen into the lungs is known as inhalation.
- 4. The process of releasing carbon dioxide from the lungs is known as exhalation.
- 5. Alveoli are surrounded by capillaries.



Describe how the parts of the digestive system and parts of the respiratory system work together. Link to:

- Respiration (explain in terms of reactants and products)
- life processes (link to digestive and respiratory system)
- Give specific example of organs in each system

The digestive system breaks down food molecules to make them small enough to diffuse into the... The respiratory system involves inhaling oxygen...

Key words: energy, oxygen, carbon dioxide, water, glucose, inhale, exhale, alveoli



Describe how the parts of the digestive system and parts of the respiratory system work together.

The <u>digestive system</u> breaks down food molecules to make them small enough to **diffuse** from the **small intestine** into the bloodstream. **Glucose** is an example of a food molecule that will diffuse in the blood and be transported around the body. The respiratory system involves **inhaling** <u>oxygen</u>, which will diffuse into the bloodstream and be transported to cells. Glucose will react with oxygen in cells, producing energy, carbon dioxide and water. This is known as respiration. The carbon dioxide will diffuse from the cell into the blood, and will diffuse out of the bloodstream into the <u>alveoli</u>, into the <u>lungs</u> and will be <u>exhaled</u>. Therefore, linking the digestive system and the respiratory system as they are reliant on one another to fulfil the following life processes: **nutrition and respiration**.

