

Explain how the respiratory system gets oxygen to the cells

•Respiration

- The process by which the body (cells) uses oxygen and gets rid of carbon dioxide
- Breathing brings air into the lungs where the two gases are exchanged CO_2 and O_2
- Oxygen is used in the process of **cellular respiration** and carbon dioxide is the waste product

→ makes ATP

1-Pharynx

- Air enters the mouth and nose passing to the throat (pharynx)

2-Larynx

- Area of the throat that contains vocal cords and produces sounds

3-Trachea

- Tube that connects the larynx to the lungs

4-Bronchi

- Area where the trachea splits leading to the right and left lungs

5-Alveoli

- Tiny air sacks at the end of the bronchi where oxygen is exchanged for carbon dioxide

Diver work B.
CO₂

O₂
In

O₂
In

CO₂
out

O₂
In

CO₂
out

O₂
In

CO₂
out



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•**Breathing**

- Air is forced into and out of your lungs
- When the diaphragm contracts, air enters the lungs
- When the diaphragm relaxes, air is forced out

Explain how the respiratory system gets oxygen to the cells

- Cellular respiration

- Oxygen is inhaled and makes its way from the lungs to the cells through the blood vessels
- The oxygen is used by the cell to break apart glucose (sugar) releasing energy.
- Carbon dioxide is also released with the energy, sent back to the lungs in the blood and exhaled.

•Respiratory disorders

–Asthma

- bronchioles become narrow making it hard to breath
- Asthma attacks can be triggered by things like dust or pollen

–Emphysema

- Damaged alveoli make it hard to get needed oxygen

–SARS

- A virus causes difficulty in breathing and a fever