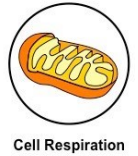


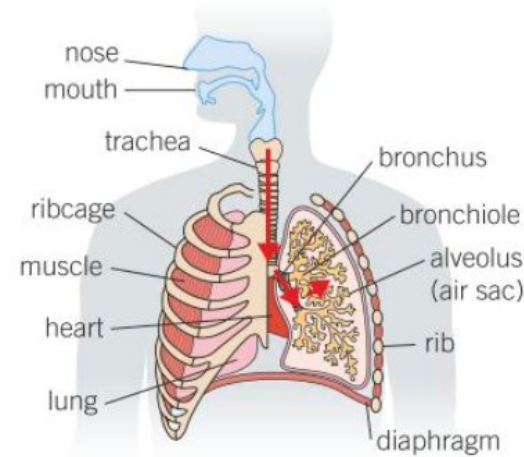


Breathing and Gas exchange



LO: Label the parts of the respiratory system and explain the processes of how we breath in and out so respiration can take place.

Labelled respiratory system:



Air enters through the nose and mouth.

↓

Air moves down the trachea (windpipe).

↓

Air splits down each bronchus.

↓

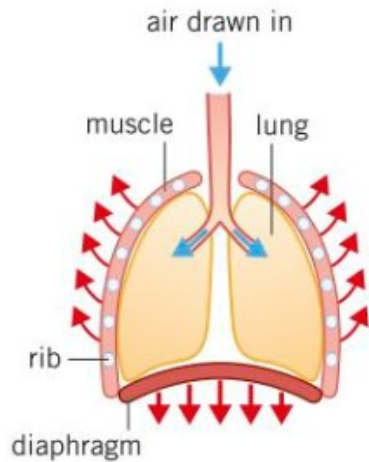
Air moves through branches of smaller bronchioles.

↓

Air moves into each alveolus (air sac).

↓

Oxygen diffuses into the blood.

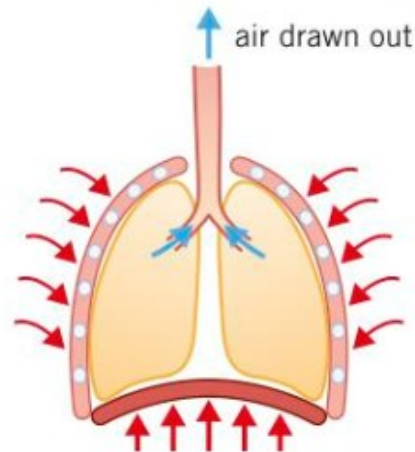


Inhalation:

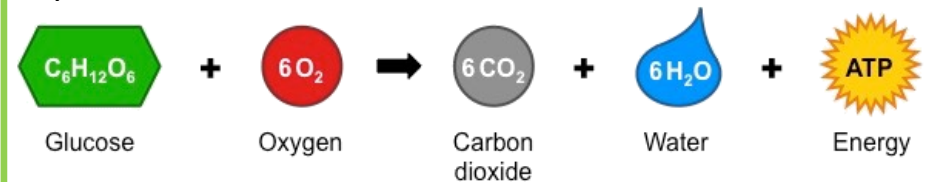
- The muscles between your ribs contract - this pulls the ribcage up and out.
- The diaphragm contracts - it moves down.
- The volume inside the chest increases.
- The pressure inside your chest decreases - air is drawn into the lungs

Exhalation:

- The muscles between your ribs relax - this pulls the ribcage down and in.
- The diaphragm relaxes - its moved up.
- The volume inside the chest decreases.
- The pressure inside your chest increased - air is forced out of the lungs



Respiration:



When we breath in the air contains much more oxygen than the air we breath out. This is because the oxygen reacts with glucose from digestion to release energy. The air we breath out therefore contains more carbon dioxide and water.