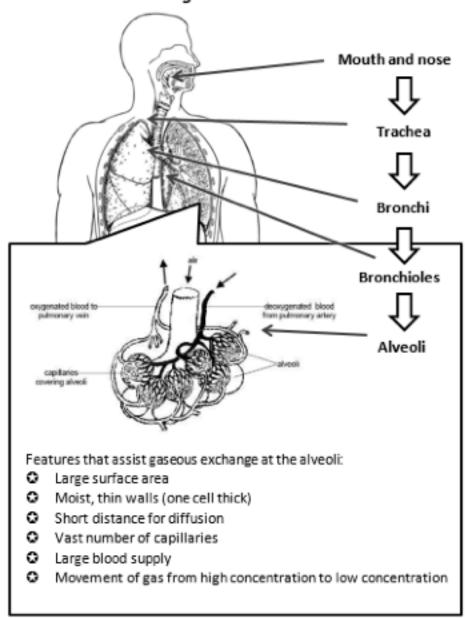
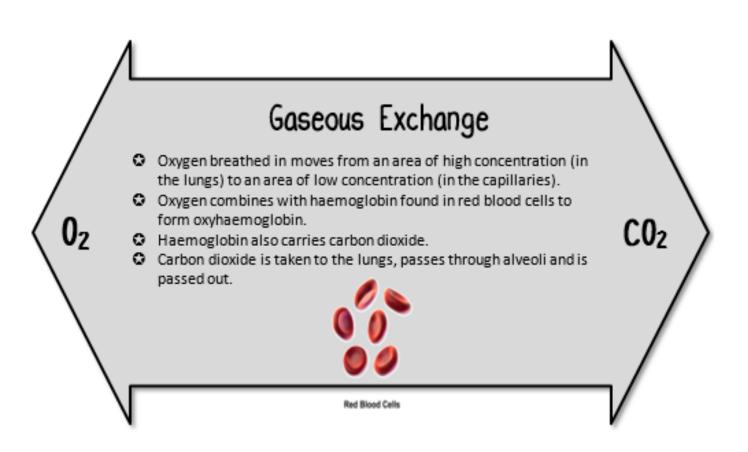
Paper 1: Respiratory system

The Pathway of Air





Paper 1: Respiratory system

The Mechanics of Breathing

In order for us to get oxygen into our bodies, we have to breathe.

Outlined below are the mechanics of how we breathe:

		Expiration	Inspiration
Intercostal Muscles	External	Relax	Contract
Inter	Internal	Contract	Relax
	Ribs	Lower	Rise
	Diaphragm	Relaxes into dome shape	Contracts and flattens
	Lung Volume	+	^
	Air pressure in lungs	^	*
	Air pressure is relatively high in	The lungs	The environment

Expiration: air out

As air pressure in the lungs increases, it forces air out of the lungs.

Inspiration: air in

As air pressure in the lungs decreases, air is sucked into the lungs.

As we exercise, the abdominal muscles support expiration by pulling the ribs down more forcefully so air can be pushed out more quickly.

As we exercise, the pectoral and sternocleidomasto id muscles support inspiration by allowing the lungs to expand and take in more oxygen.



