

## Curriculum Links for: ABPI Breathing & Asthma

Key Stage 3 (Age 11-14)

### Science

National Curriculum	<b>Life processes and Living Things</b>		
	Humans as organisms		
	<i>Breathing</i>	2.12	the structure of the lungs enables gas exchange to take place
	<i>Respiration</i>	2.14	aerobic respiration is a reaction in cells in which glucose reacts with oxygen and is broken down into carbon dioxide and water
		2.15	aerobic respiration provides energy for use by the body
		2.16	summarise aerobic respiration in a word equation
		2.17	the substances involved in respiration are transported to all parts of the body by the blood

This web resource covers the following topics:

- **Gas exchange** – a comparison of the composition of inhaled and exhaled air
- **Respiratory system** and gas exchange within the alveoli
- **Breathing** – the mechanism for breathing
- **Asthma**
- **Treating Asthma**
- **Artificial Lung** – artificial oxygenation of blood during open heart surgery