



Topic: Animals Including Humans	Subject: Science	Year: 6
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What should I already know?

- Functions of the basic parts of the digestive system in humans
- Different types of teeth in humans and their simple functions
- Changes humans incur as they develop into old age
- What a food chain is and how it is constructed

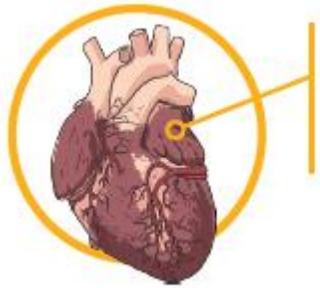
Vocabulary

Alveoli	Tiny air sacs in the lungs where gas exchange takes place
Alcohol	A drug produced from grains, fruits or vegetables when they are put through a process called fermentation
Blood	The red liquid that circulates in the arteries and veins of humans and other vertebrate animals, carrying oxygen to and carbon dioxide from the tissues of the body.
Blood Vessels	A tubular structure carrying blood through the tissues and organs; a vein, artery, or capillary.
Circulatory System	A system which includes the heart , veins, arteries and blood transporting substances around the body
Diet	The kinds of food that a human or animal habitually eats.
Drug	A substance containing natural or man-made chemicals that has an effect on your body when it enters your system
Exercise	An activity requiring physical effort, carried out to sustain or improve health and fitness.
Gas Exchange	The process by which oxygen enters the bloodstream from the lungs and the lungs receive carbon dioxide from the blood to breathe out. This process happens in the alveoli and the capillaries around the alveoli .
Heart	An organ which constantly pumps blood around the circulatory system .
Kidneys	Organs which filter blood and make urine from waste and excess water.
Liver	An organ which processes waste from the blood and produces bile.
Nutrients	Substances that animals need to stay alive and healthy
Pulmonary	Relating to the lungs
Villi	Structures in the small intestine which help absorb nutrients

Scientific Skills

- To identify and name the main parts of the human **circulatory system**, and describe the functions of the **heart**, **blood vessels** and **blood**.
- To recognise the impact of **diet**, **exercise**, **drugs** and lifestyle on the way their bodies function.
- To describe the ways in which **nutrients** and water are transported within animals, including humans.

Circulatory System Diagrams



The heart pumps blood to the lungs to get oxygen.

It then pumps this oxygenated blood around the body

Gas exchange takes place in the alveoli in the lungs

