

**Working Scientifically**

Planning – I can plan a scientific enquiry that includes a prediction and a fair test	Observations over time – I can make close observations over time	I can <b>record, report</b> and present <b>results</b> appropriately
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**What I should already know**

- Describe the simple functions of the basic parts of the digestive system in humans- mouth, tongue, teeth, oesophagus, stomach, small and large intestine
- Identify the different types of teeth in humans and their simple functions.
- Construct and interpret a variety of food chains, identifying producers, predators and prey.

**Investigate**



I can plan an investigation to find out how my pulse rate changes over time before, during and after exercise and can record this using data loggers and present results in a graph.

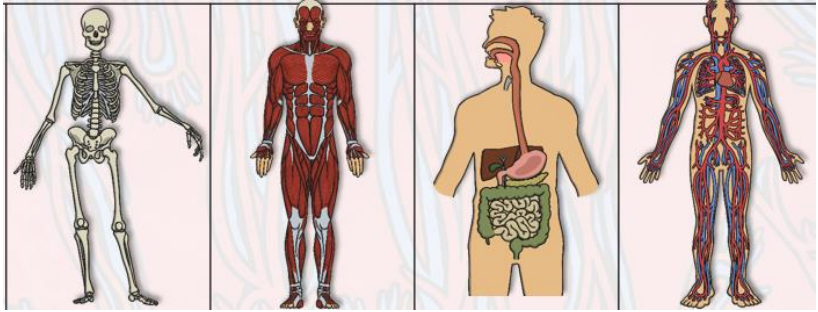
Key Vocabulary	
<b>arteries</b>	A tube in your body that carries oxygenated blood from the heart to the rest of your body
<b>capillaries</b>	Tiny blood vessels in your body
<b>Carbon Dioxide</b>	A gas produced by animals and people breathing out
<b>Circulatory system</b>	The system responsible for circulating blood through the body, that supplies nutrients and oxygen to the body and removes waste products such as carbon dioxide
<b>nutrients</b>	Substances that help plants and animals grow
<b>respiration</b>	Process of respiring, comma, breathing, inhaling and exhaling air

**What I will know by the end of the unit**

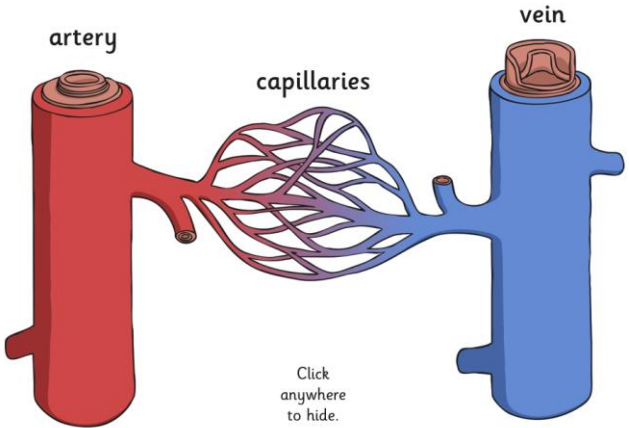
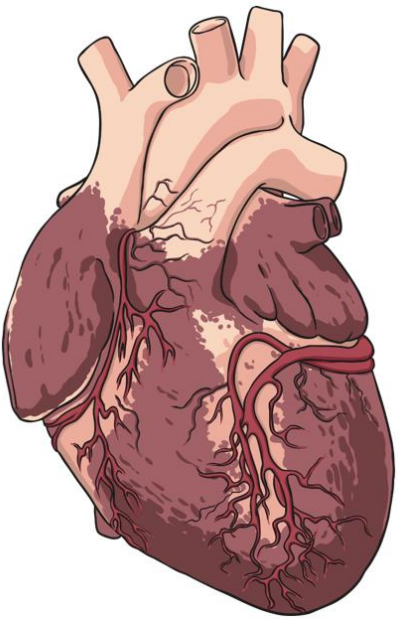
The main parts of the human circulatory system  
 Heart Blood vessels Blood (red cells carry oxygen and white cells fight infections and illnesses)  
 What does the heart do?  
 The heart pumps the blood through the blood vessels so that food and oxygen can get to all the parts of the body  
 What do the blood vessels do? The blood vessels carry the blood around the body  
 There are three main types of blood vessels  
 • The arteries, which carry the blood away from the heart • The capillaries, which enable the actual exchange of energy between the blood and the tissues • The veins, which carry blood from the capillaries back toward the heart  
 What does the blood do? • Blood moves food and oxygen around the body.  
 Things humans need to be healthy  
 To have a balanced diet of the right amount of different types of food and drink  
 • To exercise regularly & be hygienic • Changes during puberty

**People we need to know:**



The Human Heart



**Useful links**

[www.bbc.co.uk/bitesize/topics/zn22pv4](http://www.bbc.co.uk/bitesize/topics/zn22pv4)  
<https://www.nhs.uk/live-well/>  
[www.bbc.co.uk/bitesize/clips/z274d2p](http://www.bbc.co.uk/bitesize/clips/z274d2p)