

**What should I already know?**

Pupils may be able to locate where the heart is in the body, and that blood moves around the body.  
EYFS

Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense Y1

Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Y2

Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Y2

Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Y3

Identify that humans and some other animals have skeletons and muscles for support, protection and movement Y3

Describe the simple functions of the basic parts of the digestive system in humans Y4

Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution Y5

**Vocabulary**

aorta	the main <b>artery</b> which blood leaves your <b>heart</b> before it flows through the rest of your body
arteries	a tube that carries <b>oxygenated</b> blood from your <b>heart</b> to the rest of your body
atrium	one of the chambers in the <b>heart</b>
blood vessels	narrow tubes which your blood flows. <b>Arteries, veins and capillaries</b> are <b>blood vessels</b> .
capillaries	tiny <b>blood vessels</b> in your body
carbon dioxide	a gas produced by animals/humans breathing out
circulatory system	the system that circulates blood through the body, that supplies <b>nutrients</b> and <b>oxygen</b> to the body and removes waste products such as <b>carbon dioxide</b> .
deoxygenated	blood that does not contain <b>oxy-</b> <b>gen</b>
heart	the <b>organ</b> in your chest that <b>pumps</b> the blood round your body
lungs	two <b>organs</b> inside your chest which fill with air when you breathe in. They <b>oxygenate</b> the blood and remove <b>carbon dioxide</b> from it.
nutrients	substances that help plants and animals to grow
oxygen	a colourless gas that plants and animals need to survive
oxygenated	blood that contains <b>oxygen</b>
pulse	regular beating of blood through your body.
respiration	process of respiring; breathing; inhaling and exhaling air
veins	tubes in your body that carries <b>deoxygenated</b> blood to your <b>heart</b>
vena cava	a large <b>vein</b> which carries <b>deoxy-</b> <b>genated</b> blood reaches your <b>heart</b>
ventricle	one of the chambers in the <b>heart</b>

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

What is the circulatory system?	<ul style="list-style-type: none"> <li>•The <b>circulatory system</b> is made of the <b>heart, lungs</b> and the <b>blood vessels</b>.</li> <li>•<b>Arteries</b> carry <b>oxygenated</b> blood from the <b>heart</b> to the rest of the body.</li> <li>•<b>Veins</b> carry <b>deoxygenated</b> blood from the body to the <b>heart</b>.</li> <li>•<b>Nutrients, oxygen</b> and <b>carbon dioxide</b> are exchanged <b>via</b> the <b>capillaries</b>.</li> </ul>
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Choices that can harm the circulatory system	<p>Smoking and drinking alcohol is harmful to your health.</p> <p>Tobacco can cause short-term effects such as shortness of breath, difficulty sleeping and loss of taste and long-term effects such as lung disease, cancer and death.</p> <p>Alcohol can cause short-term effects such as addiction and loss of control and long-term effects such as <b>organ</b> damage, cancer and death.</p>
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Why is exercise so important?	<p>Exercise can:</p> <ul style="list-style-type: none"> <li>• <b>tone</b> our muscles and reduce fat</li> <li>• increase fitness</li> <li>• make you feel physically and mentally healthier</li> <li>• strengthens the <b>heart</b></li> <li>• improves <b>lung</b> function</li> <li>• improves skin</li> </ul>
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