

Goonhavern Primary School- SCIENCE

TOPIC: Animals Including Humans - Circulatory System

YEAR: 6

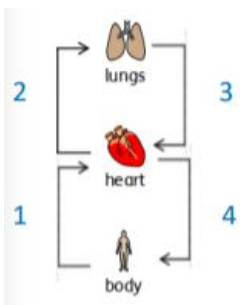
STRAND: Biology

What should I know already?	What will I know by the end of the unit?	
<ul style="list-style-type: none"> ● Which things are living and which are not. ● Classification of animals (e.g. amphibians, reptiles, birds, fish, mammals, invertebrates) Animals that are carnivores, herbivores and omnivores. ● Animals have offspring which grow into adults. ● The basic needs of animals for survival (water, food, air) The importance of exercise, hygiene and a balanced diet. ● Animals get nutrition from what they eat. ● Some animals have skeletons for support, protection and movement. ● The basic parts of the digestive system. ● The different types of teeth in humans. ● Respiration is one of the seven life processes. ● The life cycle of a human and how we change as we grow. 	<p>What is the Circulatory System?</p>	<ul style="list-style-type: none"> ● The circulatory system is made of the heart, lungs and the blood vessels. Arteries carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood from the body to the heart. Nutrients, oxygen and carbon dioxide are exchanged via the capillaries.
	<p>Choices that can harm the Circulatory System</p>	<ul style="list-style-type: none"> ● Some choices, such as smoking and drinking alcohol can be harmful to our health. ● Tobacco can cause short term effects such as shortness of breath and loss of taste and long term effects such as lung disease. ● Alcohol can cause short term effects such as addiction and long term effects such as organ damage.
	<p>Why is exercise important?</p>	<p>Exercise can:</p> <ul style="list-style-type: none"> ● Tone our muscles and reduce fat ● Increase fitness ● Make you feel physically and mentally healthier ● Strengthens the heart ● Improves lung function ● Improves skin

Vocabulary

Aorta	The main artery through which blood leaves your heart.
Arteries	A tube in your body that carries oxygenated blood from your heart to the rest of your body.
Blood vessels	The narrow tubes through which your blood flows. Arteries, veins and capillaries are blood vessels.
Capillaries	Tiny blood vessels in your body.
Carbon dioxide	A gas produced by animals and people breathing out.
Circulatory system	The system responsible for circulating blood through the body.
Deoxygenated	Blood that doesn't contain oxygen.

Heart	The organ in your chest that pumps your blood around.
Lungs	Two organs inside your chest which fill with air when you breathe in.
Organ	Part of your body with a particular purpose.
Oxygen	A gas that plants and animals need to survive.
Oxygenated	Blood that contains oxygen.
Pulse	The regular beating of blood through your body.
Respiration	Inhaling and exhaling air.
Vein	A tube that carries deoxygenated blood to your heart from the rest of your body.
Vena Cava	A large vein which deoxygenated blood reaches your heart.

Image/diagram that helps me to articulate my knowledge/understanding	Investigate!
 <p>1. Deoxygenated blood is sent to the heart from the rest of the body.</p> <p>2. This is then sent from the heart to the lungs. Here, the blood picks up oxygen and disposes of carbon dioxide.</p> <p>3. Oxygenated blood is then sent back to the heart.</p> <p>4. The heart sends the oxygenated blood back to the rest of the body.</p> <p>How often your heart pumps is called your pulse.</p>	<ul style="list-style-type: none"> • How does your pulse change with exercise? What is the most efficient way of presenting this data? • Analyse line graphs that show the change in heart rate over time before, during and after exercise. Which exercise produces the fastest pulse? How would you make this a fair test? • Identify the parts of the circulatory system and explain their functions. • Create a presentation to show how our blood is pumped around the body. • Write a persuasive text explaining the importance of exercise.

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Q1	Start of Unit	End of Unit	Q3	Start of Unit	End of Unit
	Start of Unit	End of Unit	Q4	Start of Unit	End of Unit
Q5				Start of Unit	End of Unit

Q6	Start of Unit	End of Unit

Q7	Start of Unit	End of Unit

Q8	Start of Unit	End of Unit