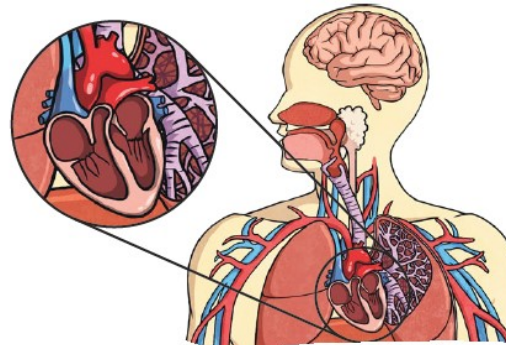
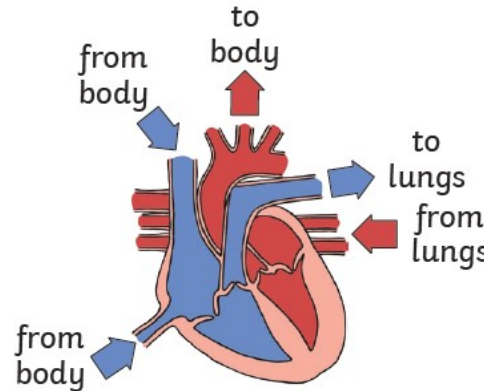


Science - The Heart Year 5 - Autumn 1

Key Vocabulary

Circulatory system	A system which includes the heart, veins, arteries and blood transporting substances around the body.
Heart	An organ which constantly pumps blood around the circulatory system.
Blood vessels	The tube-like structures that carry blood through the tissues and organs. Veins, arteries and capillaries are all blood vessels.
Oxygenated blood	This has more oxygen and has been pumped from the heart to the rest of the body.
Deoxygenated blood	This is blood where most of the oxygen has already been transferred to the rest of the body.
Nutrients	Substances that animals need to stay alive and healthy.
Pulse	The regular beating of blood through your body. Your pulse rate will change depending on how active you are.

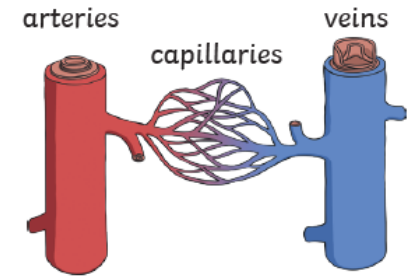


Resources

- Models of the body

Safety Cards

- Card 3 - Exercise
- Card 8 - Humans - organs



What key knowledge will I have by the end of this unit?

- Every muscle needs oxygen and sugar to contract.
- The heart is a muscle.
- The blood contains oxygen (from breathing) and sugar (from digestion).
- Oxygen goes into the blood from the lungs.
- The heart pumps blood around the body.
- When muscles work they produce waste (CO₂ and water) which is transported away from the muscles by the blood.
- The effects of life-style choices (exercise/ diet/drugs/smoking/....)

What key skills will I have by the end of this unit?

- Developing a scientific model – heart and blood circulation
- Making accurate observations – pulse rate
- Recording data
- Conclusions linking evidence to substantive knowledge
- Further questions to investigate

In KS1:	In Year 3:	In Year 4:	In Year 5:	In Year 6
<ul style="list-style-type: none"> Identify and name a range of animals Describe the structure of common animals Food chains Identify sources of food 	<ul style="list-style-type: none"> Animals have skeletons, bones and muscles 	<ul style="list-style-type: none"> Teeth and the Digestive system 	<ul style="list-style-type: none"> Animal life cycles 	<ul style="list-style-type: none"> Grouping animals including microorganisms Evolution and inheritance