

Knowledge Organiser: Year 6 – Animals, including humans











Lesson Sequence



1. Understand the function of the heart and its role in the circulatory system



2. Identify and compare blood vessels



3. Explore blood



4. Learn how the body transports water and nutrients



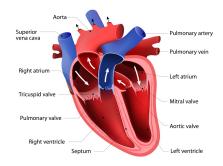
5. Investigate what affects your heart rate



6. Learn about the impact of drugs and alcohol on the body

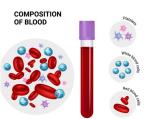
The Heart

The heart pumps blood, carrying nutrients and oxygen, around every part of the body.





The red vessels are arteries and the blue vessels are veins. Arteries have thick, muscular walls and carry oxygenated blood from the heart to the rest of the body. Veins carry deoxygenated blood back to the heart and have thinner walls. Capillaries are microscopic vessels which link the veins and arteries together.



Red blood cells carry oxygen. White blood cells fight infection as part of the immune system. Platelets help to clot (thicken) the blood and form a scab. Plasma is the fluid part of the blood, which transports

Looking After Our Heart



To keep our heart and body healthy, we need to:

- eat a balanced diet (not too much sugar or fat);
- exercise regularly:
- · drink approximately 2 litres of water a day:
- limit alcohol intake, in adults;
- get approximately 8 hours of sleep.





Drugs, including alcohol, can cause liver damage, poor sleep, high blood pressure, and different types of cancer. Drugs can be classified into four groups – painkillers, stimulants, depressants and hallucinogens.



Knowledge Organiser: Year 6 - Animals, including humans Before and After Test



















Vhat is the function of the heart?

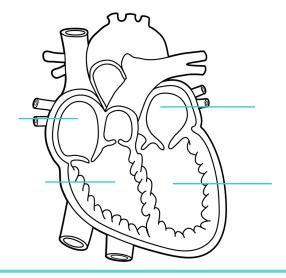
Tick the type of blood an artery carries.

- Deoxygenated
- Oxygenated

Where do veins take the blood to?

_abel the diagram	of the	heart with	the	following:
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right atrium left ventricle right ventricle left atrium



Draw lines to match the blood component to its function:

platelets

carry

oxygen

red blood

the fluid

carrying the components

plasma

cells

fights

infection

white blood cells

clot blood





Name 2 effects that taking drugs can have on the body:

Name 2 ways to look after your heart:



Unit Rocket Words: Year 6 – Animals, including humans













Rocket Words

Rocket Words				
	circulatory system	the system that controls the flow of blood around the body		
	BPM	beats per minute measuring heart rate		
⊗ ⊗ ⊕	diet	the kind of food an animal usually eats		
4	pulse	the rhythmical throbbing of the arteries as blood is pumped through them		
NO TO THE PARTY OF	oxygenated	containing oxygen		
	deoxygenated	not containing oxygen		
	atrium	the upper chambers of the heart		
	ventricle	the lower chambers of the heart		
· 3 1/2 - 3 1/	vessel	tube which circulates the blood through the body		
and the second s	valve	flaps which open and close to allow blood flow		
	diffusion	diffusion is the movement of all liquids and gases		
	osmosis	osmosis is the movement of water only		