

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



What is the function of the heart?

8

Tick the type of blood an artery carries.

Deoxygenated

Oxygenated

Where do veins take the blood to?

Label the diagram of the heart with the following:

left atrium right atrium left ventricle right ventricle



Draw lines to match the blood component to its function:

| platelets | carry oxygen |
|----------------------|---|
| red blood cells | the fluid carrying the components |
| plasma | 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

i.

E

92

尿



Rocket Words

| | circulatory system | the system that controls the flow of blood around the body |
|----------------------------|-----------------------|--|
| | BPM | beats per minute measuring heart rate |
| 20 50 60 19 50 19 50 | diet | the kind of food an animal usually eats |
| | pulse | the rhythmical throbbing of the arteries as blood is pumped through them |
| | oxygenated | containing oxygen |
| | deoxygenated | not containing oxygen |
| * | atrium | the upper chambers of the heart |
| * | ventricle | the lower chambers of the heart |
| ·· 3/4 | vessel | tube which circulates the blood through the body |
| | 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 |