

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



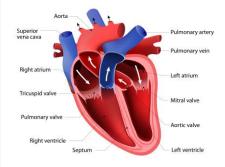
5. Investigate what affects your heart rate



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

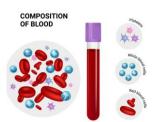
The Heart

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.