








# Science – Animals including humans – Autumn Term 2

## Prior Knowledge

- In Year 3, I learned about different bodies, skeletons and food groups.
- In Year 4, I learned about human digestion.
- In PSHE I have learned about making healthy choices.

## Key Vocabulary

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|--|---|
| <b>Digestive system</b><br>   | Breaks down food into tiny parts your body can use for energy and growth.         |
| <b>Respiratory system</b><br> | Brings oxygen in and takes carbon dioxide out of the body.                        |
|                              | Transports blood around the body.   |
| <b>Artery</b><br>           | Blood vessel which has thick walls and carries oxygenated blood.                  |
| <b>Vein</b><br>             | Blood vessel which carries blood towards the heart which is usually deoxygenated. |
| <b>Capillary</b><br>        | Blood vessel whose walls are very thin to allow blood to pass through.            |
| <b>Pulmonary</b><br>        | Related to the lungs.   |

## Core Knowledge

- The **circulatory system** is the body's transport system, using the **heart, lungs, blood vessels**, and **blood** to move important things around your body.
- There are three types of blood vessel: **artery, vein** and **capillary**.
- The heart is a muscle in your chest made up of four **chambers: the right atrium, the left atrium, the right ventricle** and **the left ventricle**.
- Blood is made up of 4 main components: **red blood cells** (transport oxygen), **white blood cells** (protect against disease), **platelets** (help blood to clot) and **plasma** (liquid that carries these cells and transports nutrients).
- The lungs contain **bronchioles**. At the end of these are tiny air sacs called **alveoli**. Here **oxygen** moves into the blood and **carbon dioxide** moves out.
- The main types of **nutrients** are **carbohydrates, proteins, fats, vitamins, minerals, fibre**, and **water**. These are found in different foods and are essential for providing **energy, growth**, and **repair**, as well as keeping the body **healthy**.

## Diagrams

