The Human Body

Curriculum Links:

- Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood
- Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function
- Describe the ways in which nutrients and water are transported within animals, including humans

Key Facts:

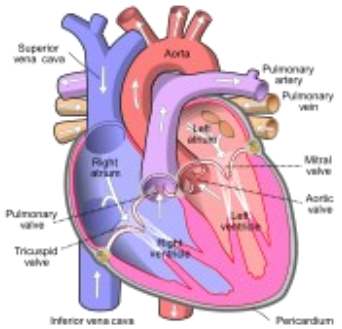
- The circulatory system is made up of the heart, lungs, blood and the vessels which it travels through. Its functions is to transport nutrients, gases and waste throughout the body.
- Arteries carry oxygenated blood from the heart to the rest of the body; whereas veins carry deoxygenated blood from the body to the heart
- Nutrients, oxygen and carbon dioxide are exchanged via the capillaries
- Over half of blood is made up of red blood cells carrying oxygen. There are also white blood cells which kill germs, platelets which help the blood clot and plasma.
- Our digestive system provides and filters the nutrients and water which our body needs.
- Exercise ensures that: our muscles are strengthened, circulation improves, increases fitness, improves lung function and reduces fat.
- Alcohol, tobaccos and drugs negatively impact on our bodies.

Possible experiences:

- Dissect animal organs
- Digestion system model
- Make blood
- Visit Body Worlds in London
- Investigate how exercise affects your pulse

We should already know:

- Classification of animals. That animals are carnivores, herbivores and omnivores
- Animals have offspring which grow into adults
- Basic needs for survival and importance of exercise
- Animals get nutrition from what they eat
- Types of teeth in humans and the basic parts of the digestive system



Key Vocabulary

Aorta	The main artery where blood leaves your heart before it flows through the rest of the body
Arteries	Tubes which carry oxygenated blood round your body
Atrium	Chambers of the heart
Capillaries	Tiny blood vessels
Circulatory System	The system which is responsible for circulating blood through the body
Deoxygenated	Blood which does not contain oxygen
Nutrients	Substances which help plants and animals grow
Oxygenated	Blood which contains oxygen
Pulse	Regular beating of blood through your body
Vena Cava	The large vein through which deoxygenated blood enters the heart
Ventricle	Chambers of the heart