



## Science – Year 6

### Animals, Including Humans

(Previous knowledge – refer to Knowledge Organiser Year 5 – Animals, Including Humans)

#### Vocabulary

Tier 1	Tier 2	Tier 3
Heart	Circulatory system	Oxygenated blood
Circulation	Blood vessels	Deoxygenated blood
Brain	Drug	Artery
Bones	Alcohol	Capillary
Blood	Nutrients	Vein
Exercise	Chambers	Plasma

#### Useful Resources

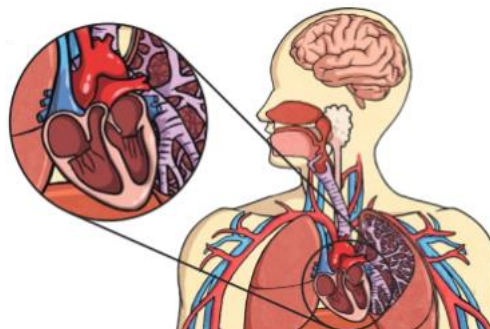
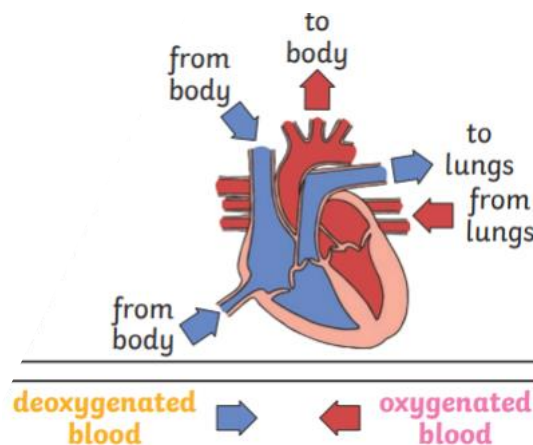
- Model of the heart to observe the different parts.
- Pictures and diagrams to label, define and explain.

#### Key Scientists:

William Harvey (1578-1657) - was an English physician and the first person to correctly describe blood's circulation in the body. He showed that arteries and veins form a complete circuit.



#### The Heart



#### Key Questions/Facts

##### What is the circulatory system?

- A system which includes the heart, veins, arteries and blood transporting substances around the body.
- Mammals have hearts with four chambers.

##### What is the difference between oxygenated and deoxygenated blood?

- Oxygenated blood has more oxygen. It is pumped from the heart to the rest of the body.
- Deoxygenated blood is blood where most of the oxygen has already been transferred to the rest of the body.

##### What are the different types of blood vessels?

- Capillaries are the smallest blood vessels in the body and it is here that the exchange of water, nutrients, oxygen and carbon dioxide takes place.
- Arteries carry oxygenated blood away from the heart.
- Veins carry deoxygenated blood toward the heart.

##### What is blood made up of?

- The liquid part of blood contains water and protein. This is called plasma. Plasma is liquid. The other parts of your blood are solid.
- Red blood cells carry oxygen around the body.
- White blood cells fight infection when you're sick.
- Platelets help you stop bleeding when you get hurt.