St Mary's C of E Primary School, Writhlington
Be the BEST you can be
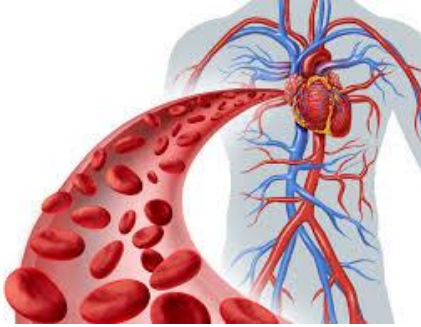**Scheme of Work + Knowledge Organiser**

Science – Animals Including Humans

National Curriculum Knowledge outcomes:
I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood.

I can recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function.

I can describe the ways in which nutrients and water are transported within animals, including humans.

The Learning Journey:

Can I identify parts of the circulatory system?

Can I explain the main functions of the heart and lungs? *Creating models of the heart and lungs to explain how they work.*

Can I explain how the digestive system breaks down nutrients? *Group presentation using research.*

Can I describe a healthy lifestyle and explain the impact of diet and exercise on the body? *Creating a pamphlet for a doctor's surgery.*

Can I plan a scientific enquiry? *Group investigation linked to pulse rate and exercise – over two sessions*

Can I explain the impact of drugs and alcohol on the body?
Creating an NHS style advert which shows the effects and sums up all of their knowledge of the unit.

Key Vocabulary:

Spelling	Definition
Arteries	Arteries carry oxygenated blood away from the heart.
Alveoli	Tiny air sacs in the lungs where gas exchange takes place.
Blood vessels	They transport blood around the body.
Blood	A body fluid which transports the necessary substancecs such as nutrients and oxygen.
Capillaries	Capillaries are the smallest blood vessels in the body.
Circulatory system	A system which includes the heart, veins, arteries and blood transporting substances around the body.
Nutrients	Substances that animals need to stay alive and healthy.
Veins	Veins carry de-oxygenated blood toward the heart.
Villi	Structures in the small intestine which help absorb nutrients.
Vitamins	Nutrients required by the body in small amounts.
Organs	Structures of the body needed for specific functions.