**St Mary’s C of E Primary School, Writhlington**

*‘Inspiring Learning Together’*

**Scheme of Work + Knowledge Organiser**



**The Learning Journey:**

**Can I identify parts of the circulatory system?**

**Can I explain the main functions of the heart and lungs?** *Creating a game to show the different functions.*

**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.*

 **Can I explain the impact of drugs and alcohol on the body?**

*Looking at the origins of smoking.*

**Key Vocabulary:**

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| **Spelling** | **Definition/Sentence** |
| **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.  |

**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.

Science – Animals Including Humans