



Eden Park Primary School Knowledge Organiser



Prior Knowledge

- I can describe and create a timeline to indicate of stages of growth in humans.
- I can explain what puberty is.

The Powerful Knowledge we will take away from this science topic:

- 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.

Word	Example
Circulatory system	System that circulates blood around the body.
Capillaries	Smallest blood vessel
Arteries	Muscle walled blood vessels – oxygenated away from the heart
Veins	Carry de-oxygenated blood towards the heart
Red/white blood cells	Red carry oxygen in blood, white fight infection
Oxygen/carbon dioxide	Gases exchanged in lungs
Lungs	Organ for gaseous exchange
Air sacs/ventricles/bronchi	Parts of lungs
Diaphragm	Muscle below lungs controls breathing
Lifestyle	The way we chose to live
Drugs	Substance that effects the body
Diet	The food we eat
Heart rate	Speed of heart pumping

Investigation

Do some interval workouts and monitor each other's heart rate and breathing rate. Measure and record systematically.
Discuss fair testing.

Working scientifically:

Take measurements with increasing accuracy and precision.

Take repeat readings when appropriate.

Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables and bar charts.

APP – Data presentation app (ask Emma Rutherford)

Heart rate monitors