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| St Julie Catholic Primary School – Science |
| Topic: Animals including humans. | Year: 6 | Strand: Biology |

What will I learn during this topic?

1. What are the names of the main parts of the human circulatory system?
2. How do our hearts work?
3. Why do we need blood & how does it move oxygen around?
4. How are nutrients & water transported within animals & humans?
5. How does exercise affect our heart rate?
6. Why is a healthy lifestyle important?
7. What are medicines & drugs?
8. How have ideas of the body changed over time?

Scientists 

William Harvey

Justus Von Liebig

What should I already know?

* Describe the changes as humans develop into old age.
* Know the life cycles of different living things.
* Know the differences between different life cycles.
* Know the process of reproduction in plants & animals.

Scientific skills

* Describing scientific evidence about parts of the circulatory system.
* Reasoning & explaining scientific evidence about how our heart functions.
* Analysing & interpreting data – a healthy lifestyle.

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| Vocabulary |
| Oxygenated/Deoxygenated | Supplied, treated enriched with or without oxygen. |
| Respiration | The movement of oxygen from the outside environment to the cells within tissues, and the removal of carbon dioxide. |
| CirculatorySystem | A system of organs that includes the heart, blood vessels, and blood which is circulated throughout the entire body of a human or other vertebrate. |
| Artery | Muscular-walled tubes forming part of the circulation system by which oxygenated blood is transported from the heart. |
| Vein | Tubes carrying deoxygenated blood from the heart. |
| Transport | Fluid that transports oxygen and nutrients to the cells and carries away carbon dioxide and other waste products. |

 

Substantive Knowledge

* Identify & name parts of the circulatory system.
* Describe the functions of the heart.
* Describe the ways nutrients & water are transported within animals & humans.
* Oxygen is breathed into lungs where it is absorbed by the blood.
* Muscles need oxygen to release energy from food to function.
* Recognise the impact of diet & exercise.