**Year 4**

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| **Biology - Animals including humans**  **Understand the journey of food through the human body** |
| To know the 4 types of teeth and their functions – Incisors for cutting, canines for tearing, molars and premolars for chewing |
| To identify the key stages of digestion – teeth & saliva, oesophagus, stomach, small intestine, large intestine & rectum |
| **Biology – Animals including humans**  **To understand food chains** |
| To know the terms producer, prey, predator |
| To construct a food chain using the correct terminology |

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| **Biology - Living Things and Their Habitats**  **To classify living things and understand how habitats can change** |
| To know how to group living things in a variety of ways (key features) |
| To use a classification key |
| To know some positive ways humans can impact a habitat (e.g. nature reserves) |
| To know some negative ways habitats can be humans or nature can impact a habitat (e.g. littering, deforestation) |

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| **Chemistry - States of matter**  **To recognise that materials can change state by heating and cooling** |
| To understand materials can be grouped into solids, liquids and gases |
| To understand how heating causes solids to melt into liquids and liquids to evaporate into gases |
| To understand how cooling causes gases to condense into liquids and liquids to freeze into solids |
| To know melting point of water is 0°C and the boiling point is 100°C |
| To know that the higher the temperature the faster the rate of evaporation |
| To understand how condensation and evaporation occur within the water cycle |

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| **Physics – Sound**  **To know that sound is a vibration which travels through a medium to the ear** |
| To understand that sound is a type of energy created by vibrations; the louder the sound, the bigger the vibration |
| To understand that sound travels from its source in all directions and we hear it when it travels to our ears |
| To know that sound travel can be blocked |
| To know that sound moves through all materials by making them vibrate; changing the way an object vibrates changes its sound |
| To know that sound volume changes dependant on the distant from the sound source |
| To know that faster vibrations (higher frequencies) produce higher pitched sounds |

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| **Physics – Electricity**  **To know how a simple electric circuit works** |
| To know that electricity is a form of energy |
| To understand that a source of electricity (mains or battery) is needed for electrical devices to work |
| To know that electricity sources push electricity round a circuit |
| To understand a complete circuit is needed for electricity to flow and devices to work |
| To understand that some materials allow electricity to flow easily and these are called conductors |
| To know that materials that don’t allow electricity to flow easily are called insulators |