

Cycle 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Yr. 5 & 6	Biology	Biology	Physics	Physics	Biology	
Y6 pos.	Evolution and Inheritance	Animals inc Humans (human circulatory system, impact of diet & lifestyle)	Electricity	Light	Living things and their habitats (micro-organisms, plants & animals)	Topic review
Key Curriculum Content	- Fossils - Variation - Offspring - Inheritance - Predators - Prey - Adaptations	- Circulatory system - Organs - Nutrients - Impact of lifestyle - Data and information	- Circuits - Recording Components - Choosing Components - Electrical safety	- Waves - Reflection - Refraction	- Classification - Invertebrates - Vertebrates	
Knowledge and Skills	- recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago - recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents - identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution	- 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 body's function - describe the ways in which nutrients and water are transported within animals, including humans	- associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit - compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches - use recognised symbols when representing a simple circuit in a diagram	- recognise that light appears to travel in straight lines - use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye - explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes - use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them	- describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals - give reasons for classifying plants and animals based on specific characteristics	

Key Questions	- Can you explain adaptation? - What is evolution? - How are fossils formed? - How do fossils show evidence for evolution?	- Where are the major organs in the body? - What is the purpose of the heart? - How can you measure the health of a heart? - Name two ways we can display data - Name two ways to live a healthy lifestyle.	- Can you draw a simple circuit (using the correct diagrams)? - How can you test the power of a circuit? - Name a way you can increase the power of a circuit - Can you explain the dangers of electricity and how can we keep ourselves safe?	- How does light help us see things? - What is the difference between reflection and refraction? - Name 3 uses of a mirror - When can you see a practical example of refraction?	- How can you sort different living organisms? - Ow can we categories subgroups of invertebrates? - What are the key features for the subgroups of vertebrates? - What chart can we use to help us classify different living things?	
Cycle 2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Yr. 3 & 4	Biology	Physics	Physics	Chemistry	Biology	Biology
Y4 pos.	Animals inc humans (teeth, digestion & food chains)	Electricity	Sound	Properties and changes of materials	Living things & their habitats (life cycles & reproduction)	
Key Curriculum Content	- Hygiene - Type of teeth - Data Handling - Digestion - Predator and Prey - Producer and Consumer	- Uses of electricity - Mains and batteries - Circuits - Components - Insulators and conductors	- Vibrations - Insulation - Absorption	- Solids - Liquids - Gasses - Particles - Water Cycle	- Classification - Vertebrate - Invertebrate - Conservation	
Knowledge and Skills	- describe the simple functions of the basic parts of the digestive system in humans - identify the different types of teeth in humans and their simple functions - construct and interpret a variety of	- identify common appliances that run on electricity - construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers	- identify how sounds are made, associating some of them with something vibrating - recognise that vibrations from sounds travel through a medium to the ear - find patterns between the pitch of a sound	- compare and group materials together, according to whether they are solids, liquids or gases - observe that some materials change state when they	- recognise that living things can be grouped in a variety of ways - explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment - recognise that environments can change and that this can sometimes pose dangers to living things	

	food chains, identifying producers, predators and prey	• identify whether a lamp will light in a simple series circuit, based on whether the lamp is part of a complete loop with a battery • recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit • recognise some common conductors and insulators, and associate metals with being good conductors	and features of the object that produced it • find patterns between the volume of a sound and the strength of the vibrations that produced it • recognise that sounds get fainter as the distance from the sound source increases	are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C) • identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature	
Key Questions	• What are the different teeth used for? • How does the tongue help digestion? • How does an animals diet effect their teeth? • What is the difference between a producer and consumer?	• Name some appliances that use electricity. • Name some appliances that run on batteries and some that plug into mains • Can you draw a simple circuit? • Name some insulators/conductors	• How does vibration create sound? • How does the ear recognise sound? • What objects can insulate sound? • What is the difference between wind and string instruments?	• How do materials change their state? • What are the 3 major states? • How do the particles differ between material states? • Can you name a real-life cycle that shows the 3 main states?	• Name two types of plants • How can you tell if an animal is a vertebrate? • What are the 5 major subgroups of vertebrates? • How can we classify different living things?