



		Year 5 4 lessons per fortnight			Year 6 4 lessons per fortnight				
	Wk	Topic	Learning Aims	Assessment	Topic	Learning Aims	Assessment		
Autumn - rotation	1	Animals, including Humans	Know some different life cycles of living things	Baseline test (GL)	Animals, including Humans	Know how the heart functions and how blood is pumped around the body			
	2		Describe the changes that affect humans from birth to old age			Describe the composition of blood and the functions of its components			
	3		Explain what puberty is and how it causes physical changes in boys and girls			Describe how our body cares for the health of our blood			
	4		Vocabulary: reproduce, adult, foetus, embryo, puberty, time period, gestation, breeding, plantation, trait, propagation, horticulturalist, clone, growth spurt, childhood, motor skills, milk teeth, labour, adolescence, bloodstream, hormone, growth, appetite, cataract, cardiovascular, plasticity, memory, neurodegenerative			Explain the importance of bacteria for our health			
	5					Explain how to prevent disease by maintaining a healthy diet			
	6		Summative: End of topic test	Explore the human heart, understanding what affects heart rate					
	7	Forces	Know how different forces act		Light	Describe what a ray of light is and how it travels.			
	8		Explain the impact of natural and applied forces			Describe materials in terms of their optical properties.			
	9		Create models to represent an understanding of forces			Explain the effect of lenses			
	10		Vocabulary: gravity, weight, mass, air resistance, opposing, streamlined, upthrust, buoyant, sink, friction, resistance, lubricant, newton, lever, load pivot, fulcrum, pulley, mechanism, gear			Summative: End of topic test	Vocabulary: shadow, opposite, obstruct, light ray, fluorescent, luminous, transparent, opaque, focal point, lens, refraction, convex, spectrum, prism, white light, medium, magnify, rainbow, apparent, distorted, filter, primary, secondary, magenta, cyan		
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13	Change of Materials	Know ways in which materials can change		Evolution and inheritance	Know the theory of evolution				
14		Describe changes that can happen to materials			Explain what natural selection is				
15		Explain how physical changes can be reversed			Explore and challenge modern scientific approaches to genetic modification				
		Vocabulary: pure, solute, solvent, solution, evaporate, reversible, mixture, physical change, melting, evaporate, irreversible, compare, product, variable, control, corrosion, rusting, combustion, fuel, oxygen, extinguish, reaction, predict, acid, carbon dioxide			Summative: Experiment Big Write	Vocabulary: adaptation, desert, cactus, insulating, environment, fossil, fossilisation, evidence, dinosaur, petrified, genetically modified crops, toxin, resilience, breeding, yield, generation, species, evolution, offspring, DNA, natural selection, palaeontologist			
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Spring - rotation	2	Properties of Materials	Group and compare everyday materials and their uses		Electricity	Recall parts of a circuit and their functions			
	3		Explore materials extracted from natural resources, explaining their uses			Explain the impact of adding to, or removing components from, a circuit			
	4		Investigate the properties of materials			Build and create circuit models			
	5		Vocabulary: conductive, magnetic, durable, transparent, versatile, thermal, molecules, insulator, hardness, force, iron, steel, stone, dissolve, solute, insoluble, soluble, solvent, solution, saturation, pure, mixture, filtering, sieving, evaporation			Summative: End of topic test	Vocabulary: Battery, circuit, current, resistance, voltage, amps, crocodile clips, bulb, increase, decrease, dimmer, switch		
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	7		Earth and Space	Know the position and movement of the Earth in space			Living things and their habitats	Know the five kingdoms of life and name some examples within them	
	8			Identify planets in the solar system and their orbit of the sun				Describe different classes of vertebrates	
	9			Explore various theories behind the Big Bang Theory				Explain what lives in soil habitats	
	10			Vocabulary: geocentric, heliocentric, orbit, axis, season, poles, eclipse, hemisphere, rocky, gas, dwarf, moon, solar system, astronomy, universe, Milky Way, expand, Big Bang theory, tides, gravitational force, black hole, mass, celestial, phase, illuminate, waxing, waning				Summative: End of topic test	Vocabulary: classify, spore, micro-organism, seed, similarities, multicellular, unicellular, kingdom, cell, MRS GREN, Latin, genus, Carl Linnaeus, class, species, vertebrate, cold-blooded, amphibian, reptile, mammal, carbon dioxide, microorganism, plant, oxygen, microscopic, mycelium, fungi, mushrooms, yeasts, hyphae
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Summer - rotation	1	Living Thing & Habitats	Know about the life and work of scientists		Summative: End of topic test	Summative: End of topic test	GL Assessment		
	2		Describe the life cycles of different plants and animals					End of year 5 Assessment	End of year 6 Assessment
	3		Compare reproductive processes in different living things						
	4		Vocabulary: fertilisation, genes, sexual, pollination, pollen, asexual, plantlet, bulb, tuber, bacteria, metamorphosis, larva, pupa, tadpole, butterfly, unborn, egg, hatch, fledgling, mammary gland, documentary, naturalist, lecture, chimpanzee, primatologist, primate, endangered						
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