

Science 2025 -26



		Year 5	4 lessons per fortnight		Year 6	4 lessons per fortnight	<u> </u>
	Wk	Topic	Learning Aims	Assessment	Topic	Learning Aims	Assessment
	1			Baseline test (GL)		Know how the heart functions and how blood is	
	2	Animals, including Humans	Know some different life cycles of living things Describe the changes that affect humans from birth to old age Explain what puberty is and how it causes physical changes in boys and girls Vocabulary: reproduce, adult, foetus, embryo, puberty, time period, gestation, breeding, growth spurt, childhood, motor skills, milk teeth, labour, adolescence, bloodstream, hormone, growth, appetite, cataract, cardiovascular, plasticity, memory, neurodegenerative		Animals, including Humans	pumped around the body Describe the composition of blood and the functions of	
	3					its components Describe how our body cares for the health of our	
	4					blood Explain how to prevent disease by maintaining a	
	5					healthy diet	
	6					Explore the human heart, understanding what affects heart rate	
	0					Vocabulary: Transportation, cell, nutrients, blood, circulatory system, vessels, heart attack, artery, fatty deposits, vein, contract, relax, oxygenated, cancer, poison, cigarette, balanced diet, vitamin, minerals, protein, platelet, antibody, transfusion, blood group, diabetes, insulin, pancreas	
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Autumn - rotation	7						
				End of topic			
	8			test			End of topic test
	9	Forces	Know how different forces act Explain the impact of natural and applied forces Create models to represent an understanding of forces Vocabulary: gravity, weight, mass, air resistance, opposing, streamlined, upthrust, buoyant, sink, friction, resistance, lubricant, newton, lever, load pivot, fulcrum, pulley, mechanism, gear		Light	Describe what a ray of light is and how it travels. Describe materials in terms of their optical properties. Explain the effect of lenses 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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	12						
	13						
	14						
				End of topic			Ford of tourists at
	15			test			End of topic test
	1	Change of Materials	Know ways in which materials can change Describe changes that can happen to materials Explain how physical changes can be reversed 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		Evolution and inheritance	Know the theory of evolution Explain what natural selection is Explore and challenge modern scientific approaches to genetic modification 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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	3						
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- rotation	5						
Spring - ro	6			End of topic test			End of topic test
	7	Properties of Materials Vocabulary: conductive transparent, versatile, there hardness, force, iron, steed insoluble, soluble, solvent, mixture, filtering, sie	Group and compare everyday materials and their uses	CCSC	Electricity	Recall parts of a circuit and their functions Explain the impact of adding to, or removing components from, a circuit Build and create circuit models Vocabulary: Battery, circuit, current, resistance, voltage, amps, crocodile clips, bulb, increase, decrease, dimmer, switch	
	8		Explore materials extracted from natural resources, explaining their uses Investigate the properties of materials 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				
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	12			End of topic			
	1			test			
	2	Earth and Space	Know the position and movement of the Earth in space Identify planets in the solar system and their orbit of the sun				End of topic test
			Explore various theories behind the Big Bang Theory 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			Know the five kingdoms of life and name some examples within them Describe different classes of vertebrates Explain what lives in soil habitats Give examples of microorganisms 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	
	3						
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- rotation				End of topic	v		
r - ro	4			test	Living things and their habitat		
Summer	5	Living Thing & Habitats	Know about the life and work of scientists Describe the life cycles of different plants and animals Compare reproductive processes in different living things 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				
Sun	6						
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	9			End of topic test			End of topic test
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