



		Year 5 4 lessons per fortnight		
	Wk	Topic	Learning Aims	Assessment
Autumn - rotation	1	Earth and space	Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Describe the movement of the Moon relative to the Earth. Describe the Sun, Earth and Moon as approximately spherical bodies. Explain day and night, and the apparent movement of the sun across the sky. <i>Vocabulary:</i> Earth, evidence, observation, axis, orbit, sphere, phases, leap year, horizon, eclipse	Baseline test (GL)
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	8	Separating materials	Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. <i>Vocabulary:</i> Evaporation, liquid, water vapour, condense, filtration, separation, sieving, chromatography, solute, solution, solvent	Formative Assessment: Out of this world video blog
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Spring - rotation	1	Forces	Explain that unsupported objects fall towards the Earth because of the force of gravity. Identify the effects of air resistance, water resistance and friction. <i>Vocabulary:</i> Force, friction, air resistance, particles, surface area, gravity, buoyancy, floating, sinking, Newton meter, pull, push, deform accelerate, decelerate.	Formative Assessment: Trapeze trouble (Pendulum experiment)
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	7	Properties of Materials	Compare and group together everyday materials on the basis of their properties. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials. <i>Vocabulary:</i> Soft, hard, compress, waterproof, stretching, fair test, absorbent, materials, metal, plastic, scratch resistant.	Summative: End of topic test (Rising Stars)
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Summer - rotation	1	Living things and their habitats	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals. Describe the changes as humans develop to old age. <i>Vocabulary:</i> Reproduce, pollination, seed dispersal, fertilisation, nutrients, ovary, ovum, anther, carpel, stamen, stigma, style.	Formative Assessment: Charlotte and friends
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	6	Chemical change	Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible. <i>Vocabulary:</i> Chemical, physical, heat energy, reaction, products, reactants, reversible, irreversible, chemically bonded, observation, investigation	Summative: End of topic test
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		Year 6 4 lessons per fortnight		
	Topic	Learning Aims	Assessment	
	Bodies and lifestyles	Identify and name the main parts of the human circulatory system and their functions. Know about CPR and how to stop bleeding. Recognise the impact of diet, exercise, drugs and lifestyle body functioning. Describe the ways in which nutrients and water are transported within animals, including humans. <i>Vocabulary:</i> Prediction, addictive, alcohol, medicine, nicotine, solvent, artery, vein, capillary, heart.	Baseline test (GL)	
			Summative: End of topic test	
	Light	Recognise that light appears to travel in straight lines. Explain that objects are seen because they give out or reflect light into the eye. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. <i>Vocabulary:</i> Straight line, reflect, absorb, scattered, light ray, data logger, conclusion, colours, periscope	Formative Assessment: The Great Stink!	
			Summative: End of topic test	
	Evolution and inheritance	Recognise that living things have changed over time and that fossils provide information about once-living things. Recognise that living things produce offspring of the same kind, but offspring vary and are not identical to their parents. Identify how animals and plants are adapted to suit their environment how this may lead to evolution. <i>Vocabulary:</i> Adaptation, inherit, characteristics, fertilisation, genes, survival of the fittest, evolution, fossil, palaeontologist	Formative Assessment: Trapeze trouble (Pendulum experiment)	
			Summative: End of topic test (Rising Stars)	
	Electrical circuits	Associate the brightness of a lamp or the volume of a buzzer with the number of cells used. Compare and give reasons for variations in the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit. <i>Vocabulary:</i> Battery, circuit, current, resistance, voltage, amps, crocodile clips, bulb, increase, decrease, dimmer, switch	Formative Assessment: Helpful harness	
			Summative: End of topic test	
	Classifying living things	Describe how living things are classified into broad groups according to common observable characteristics. Give reasons for classifying plants and animals based on specific characteristics. <i>Vocabulary:</i> Vertebrates, invertebrates, reptiles, amphibians, birds, mammals, fish, insect, crustaceans, arachnids, classify, flowering, non-flowering	Formative Assessment: Charlotte and friends	
			Summative: End of topic test	
	Planet Earth	Describe the layers of the earth. Explain how different rock types are formed. <i>Vocabulary:</i> Core, inner, outer, mantle, crust, tectonic plates, up thrust, subduction, continental drift, volcano, tsunami.	Formative Assessment: Out of this world video blog	
			Summative: End of topic test	
			GL Assessment	
			End of year 6 Assessment	