SCIENCE	Key Stage 1		Lower Key Stage 2		Upper Key Stage 2	
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Note: students are not expected to cover each aspect for every area of study  Working scientifically						
Questioning	ask simple questions	ask simple questions	ask relevant questions	ask relevant questions	ask questions which can be investigated	ask questions which can be investigated
Observing & recording	observe closely, use to answer questions	observe closely, use to answer questions, record	make measurements	analyse data	take measurements with increasing accuracy	take measurements with increasing accuracy
Equipment	simple (hand lenses, egg timers)	simple data simple (hand lenses, egg timers)	measuring devices, thermometers	measuring devices, thermometers	a range of scientific equipment -stopwatch, scales, spring balance	a range of scientific equipment - ph meter, scales, spring balance
Testing	do simple tests	do simple tests	design simple tests	design simple tests	plan enquiries, recognise and control  variables	plan enquiries, recognise and control  variables
Categorising	identify and classify	identify and classify	identify differences and similarities	identify differences and similarities	classification tables	classification tables
Reporting oral and written explanations, displays and presentations				oral and written explanations, displays and presentations	oral and written reports, tables, diagrams with labels, bar and line graphs, models	oral and written reports, tables, diagrams with labels, bar and line graphs, models
Draw conclusions suggest improvements, predict further tests				suggest improvements, predict further tests	explain causal relationships	explain causal relationships
Use evidence to answer questions, support findings					make predictions and set up further fair tests	make predictions and set up further fair
Earth & Space tests						
Sun	observe the sun's apparent movement, be aware of seasons				use Earth's rotation to describe day and night, describe Earth's orbit in relation to the Sun	
				Moon	describe the Moon's orbit	
Living things						
Plants	Identify & name plants & parts	how seeds grow, what plants need for life	function of roots, stem, leaves and flowers, requirements for life and growth, plant life cycle	identify, classify into groups (trees, grasses, flowers, mosses) then give reasons why	describe life cycles, growth, reproduction and death	describe life processes
Animals	Identify & name, describe & compare	offspring, basic needs for survival	nutrition, how nutrients are transported, skeletons and muscles	identify, classify into groups (e.g. fish, amphibians, reptiles, birds, mammals) then give reasons why	describe life cycles, birth, growth, development, reproduction, death	describe life processes
Humans	Identify, name, draw & label body parts	Exercise, healthy eating and hygiene	nutrition, how nutrients are transported, skeletons and muscles	body parts, digestive system, types of teeth	describe life cycles, circulatory system, function of heart, blood vessels and blood	describe changes in humans through the life cycle, recognise the impact of diet, exercise, drugs and lifestyle
	Habitats	how habitats provide for needs of animals and depend		recognise changing environments and dangers to habitats (e.g.		
on them  Food chains simple food chain				deforestation) food webs		
Rocks compare and group rocks,						
properties & formation, fossils  Inheritance				identify how living things resemble		recognise that offspring normally vary and
				their parents in many features		are not identical to their parents recognise how and why the human skeleton
Evolution				information about living things identify how living things are suited to		has changed since we separated from other primates
Adaptation				and adapt to their environment		describe how adaptation leads to evolution
Everyday materials						
Materials	identify, describe & compare - wood, plastic, glass, metal, water, rock	identify & compare <b>uses</b> of materials			give reasons, based on evidence, for the uses of materials	
Solids, liquids & gases	change solids by squashing, bending, twisting			group solids, liquids and gases,	compare and group based on evidence of properties - conductivity, hardness, solubility	
Changing states of matter				evaporation and condensation	decide how mixtures might be separated - filtering, sieving and evaporating	
				Reversible and irreversible changes	demonstrate that dissolving, mixing and changes of state are reversible	explain that some changes form new materials - burning, oxidising, action of acid
Light & sound						
Light sources & properties			observe and name			recognise that travels in straight lines, reflection
Shadows			observe and investigate how shadows change shape & size			predict size and shape of shadows when position changes
How sounds are made				notice vibrations, name sources of sounds		
Pitch				find patterns in changing pitch find patters, recognise the sounds get		
Volume				fainter as the distance from source increases		
Forces & electricity						
observe movement - rolling,  Movement  falling, flying, walking, running, use words like faster and slower						explain gravity, air resistance, water resistance, friction, how force is transferred through gears, levels, pulleys, springs
notice forces, strength of magnets, attract and repel, classify magnetism of objects					know that magnets have two poles, predict if magnets will attract/repel	
Circuits				construct series circuit, identify whether bulbs will work or not, use switches		identify and name - cells, wires, bulbs, switches, buzzers, how voltage affects bulbs/buzzers, how switches work
Conductors & insulators				recognise some common materials for each, associate metal with conduction		
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