Lower KS2 - Progression of Science Skills

Year A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1 Summer 2			
	My Place in the World	Mysteries of the		e Earth	Building Britain			
	<u>Light</u>	Maya	States of Mat	t <mark>er and Sound</mark>	Forces and Magnets			
Global Goals	0 tashnalagu/alastrisitu	Electiricity						
	9 – technology (electricity and appliances)							
SIAMS	Strand 2a - meeting needs		ulum	_	needs of pupils through curriculum	3b – Ask big questions		
Working scientifically	2b – spiritual development			3b – Ask big question	ns			
Working scientifically	<u> </u>	ons and using different t		ies to answer them				
	 Setting up simple practical enquiries, comparative and fair tests Making systematic and careful observations and taking accurate measurements using standard units Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables 							
	 Reporting on findings f 	rom enquiries, including	oral and written explai	nations, displays or pre	esentations of results and conclusions			
	_	-	-		ments and raise further questions			
		, similarities or changes	•	· ·	S			
Living things and their	Using straightforward s	scientific evidence to an	swer questions or to su	oport their findings				
habitats								
Animals, including								
humans, evolution and								
inheritance (Y6) Properties and changes in				States of matter				
materials					un materials together according to whether they are			
	To compare and group materials together, according to whether they are solids, liquids or gases.							
					ne materials change state when they are heated or			
				cooled, and measure	e or research the temperature at which this happens			
				in degrees Celsius (°	•			
					played by evaporation and condensation in the water			
Fauth and space				cycle and associate t	the rate of evaporation with temperature			
Earth and space Forces						To compare how things move on different surfaces		
Torces						To notice that some forces need contact between 2 objects, but		
						magnetic forces can act at a distance		
						To observe how magnets attract or repel each other and attract some		
						materials and not others		
						To compare and group together a variety of everyday materials on the		
						basis of whether they are attracted to a magnet, and identify some		
						magnetic materials To describe magnets as having 2 poles		
						To predict whether 2 magnets will attract or repel each other, depending		
						on which poles are facing		
Sound		To identify ho	w sounds are made,					
		•	me of them with					
		something vib	_					
		_	hat vibrations from					
		the ear.	through a medium to					
			ns between the pitch					
		· ·	I features of the object					
		that produced	· · · · · · · · · · · · · · · · · · ·					
		· ·	ns between the volume					
			I the strength of the					
		vibrations that	-					
		To recognise t	hat sounds get fainter					

	as the distance from the sound					
	source increases.					
Light	To recognise that they need light in order to see things and that dark is					
	the absence of light.					
	To notice that light is reflected from surfaces.					
	To recognise that light from the sun can be dangerous and that there are					
	ways to protect their eyes.					
	To recognise that shadows are formed when the light from a light source					
	is blocked by a solid object.					
	To find patterns in the way that the size of shadows change.					
Electricity	To identify common appliances that run on electricity.					
	To construct a simple series electrical circuit, identifying and naming its					
	basic parts, including cells, wires, bulbs, switches and buzzers.					
	To identify whether or not a lamp will light in a simple series circuit,					
	based on whether or not the lamp is part of a complete loop with a					
	battery.					
	To recognise that a switch opens and closes a circuit and associate this					
	with whether or not a lamp lights in a simple series circuit.					
	To recognise some common conductors and insulators, and associate					
	metals with being good conductors.					

Year B	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
	Global Warriors	1	Land of the Pharaohs		From Stone to Steel		
	Livings and their Habit	<mark>tats</mark>	Animals including hu		Rocks and Minerals		
	Plants Plants						
Working scientifically	 Asking relevant questions and using different types of scientific enquiries to answer them Setting up simple practical enquiries, comparative and fair tests Making systematic and careful observations and taking accurate measurements using standard units Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions 						
	 Identifying differences, similarities or changes related to simple scientific ideas and processes Using straightforward scientific evidence to answer questions or to support their findings 						
Global Goals	- Osing straightforw	aru scientinic evidence t	3 – Good Health and \		15 – Life on Land		
Global Goals			3 Good Ficaltif and	venbenig	15 Life on Land		
SIAMS	_	eeds of pupils through		eeds of pupils through	_	eeds of pupils through curriculum	
	curriculum 5b – Celebrating differen	ence and diversity	curriculum Strand 5c – Health and	d Relationshins	Strand 2b – Spiritual de	everopment	
Plants	30 CCIEDIALIII UIIIEI	ence and diversity	Straina SC - Health all	a neiadonompo	To identify and describ	be the functions of different parts of flowering plants—roots, stem / trunk, leaves and flowers.	
					-	in which water is transported within plants.	
					·	at flowers play in the life cycle of flowering plants including pollination, seed formation and seed	
					dispersal.		
Living things and their habitats					_	g things can be grouped in a variety of ways.	
nasitats					environment.	ssification keys to help group, identify and name a variety of living things in their local and wider	
						ronments can change and that this can sometimes pose dangers to living things	
Animals, including humans,			To identify that huma	ns need the right types	3	<u> </u>	
			and amount of nutriti	•			
			cannot make their ow				
			nutrition from what the	ney eat. ns have skeletons and			
			muscles for support, p				
			movement.				
				e functions of the basic			
			parts of the digestive	•			
			To identify the differe				
Properties and changes in			humans and their sim	pie runctions.			
materials							
Earth and space							
Forces							
Rocks	To compare and group						
	kinds of rocks based or simple physical proper	n their appearance and					
	To describe in simple t						
	formed when things th						
	trapped within rocks.						
	To recognise that soils	are made from rocks					
Light	and organic matter.						
Light							

Electricity		
Enrichment opportunities		