Year 4 Progression Document (Knowledge and Working Scientifically)

Year 4						
Autumn 1	Spring 1	Summer 1				
 Physics - Electricity To identify common appliances that run on electricity. To identify and name the basic parts of an electrical circuit (buzzers, switches, wires, cells and bulbs) To construct a simple electrical circuit. To investigate how and why a lamp will turn on in a simple circuit (based on whether the lamp is part of a complete loop with a battery) To investigate how switches can affect a circuit. To recognise common conductors and insulators and associate metals with being good conductors. 	 Physics – Sound To identify how sounds are made (associating some of them with something vibrating) To recognise how sound travels to the ear. To find patterns between the pitch of a sound and features of the object that produced it. To find patterns between the volume of sound and the strength of the vibrations that produced it. To investigate how distance affects sound. (2 lessons) 	Chemistry – States of Matter To develop simple descriptions of the states of matter (solids, liquids and gases) To compare and group together materials according to whether they are solids, liquids or gasses. To observe that some materials change state when they are heated or cooled. To measure and research the temperature at which states change. To understand the water cycle and the part evaporation and condensation plays. To record and observe evaporation over time (2 lessons)				
Autumn 2	Spring 2	Summer 2				
Time available for Christmas Production Rehearsal	 Biology - Living Things and Habitat To recognise that living things can be grouped in a variety of ways (fish, mammals, birds, fish, amphibians, reptiles) To recognise that living things can be grouped in a variety of ways (flowering and nonflowering plants) To explore and use classification keys to help group, identify and name a variety of living things in their local environment To explore and use classification keys to help group, identify and name a variety of living things in the wider environment To recognise the human impact on an environment. To recognise that environments can change and that this can sometimes pose dangers to living things. 	 Biology - Animals including Humans To identify the basic parts of the digestive system. To describe the simple functions of the basic parts of the digestive system in humans To identify the different types of teeth in humans (including carnivores and herbivores) To identify the functions of human teeth. To investigate the impact diet has on your teeth To identify producers, predators and prey. To construct and interpret a variety of food chains including producers, predators and prey. 				

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Tear 4 Hogicssion Bocome	LKS2 Working Scientifically						
N.C Objective	Year 3			Year 4			
asking relevant questions and	Autumn	Spring	Summer	Autumn	Spring	Summer	
using different types of scientific enquiries to answer them	RocksAnimals including Humans	• Light	PlantsForces and Magnets	Electricity	Sound	Animals including Humans States of Matter	
setting up simple practical enquiries, comparative and fair tests	• Rocks	• Light	PlantsForces and Magnets	Electricity	• Sound	Animals including HumansStates of Matter	
making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	 Rocks 	• Light	PlantsForces and Magnets	Electricity	• Sound	 Animals including Humans States of Matter 	
gathering, recording, classifying and presenting data in a variety of ways to help in answering questions		• Light	PlantsForces and Magnets			Animals including Humans States of Matter	
recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	• Rocks	• Light	PlantsForces and Magnets		• Sound	Animals including Humans States of Matter	
reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	• Rocks	• Light	PlantsForces and Magnets	Electricity	• Sound	 Animals including Humans States of Matter 	
using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions	• Rocks	• Light	PlantsForces and Magnets	Electricity	• Sound	Animals including Humans	
identifying differences, similarities or changes related to simple scientific ideas and processes	RocksAnimals including Humans	• Light	PlantsForces and Magnets		• Sound	States of Matter	
using straightforward scientific evidence to answer questions or to support their findings.	• Rocks	• Light	PlantsForces and Magnets	Electricity	• Sound	 Animals including Humans States of Matter 	

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 Animals 			
including			
Humans			