Working Scientifically						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
I can ask questions and know they can be answered in different ways	I can ask questions and know they can be answered in different ways	I can ask questions and use different types of scientific enquiries to answer them	I can ask relevant questions and use different types of scientific enquiries to answer them	I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	I can plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	
I can look closely, using equipment	I can watch closely using equipment	I can set up simple practical enquiries, comparative and fair tests	I can set up practical enquiries, comparative and fair tests	I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	I can take accurate measurements, using a range of scientific equipment taking repeat readings when appropriate	
	I can communicate my ideas, what I do, and what I find out in a variety of ways	I can make observations and take measurements using standard units, using a range of equipment, including thermometers and data loggers	I can make systematic and careful observations and take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	I can record complex data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	
I can do tests	I can do tests	I can gather, record, classify and present data in a variety of ways to help in answering questions	I can gather, record, classify and present data in a variety of ways to help in answering questions	I can use test results to make predictions to set up further comparative and fair tests	I can use test results to make predictions to set up further comparative and fair tests	
I can name and group	I can name and group	I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables	I can record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts and tables	I can talk about and present findings from enquiries, including conclusions, causal relationships and explanations of how reliable the information is	I can report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms	

Lean use my chaos sticks	Lean use my cheer ations	I can report on findings	I can report on findings	I can identify scientific	such as displays and other presentations I can describe and
I can use my observations and ideas to suggest	I can use my observations and ideas to suggest	from enquiries, including	from enquiries, including	evidence that has been	evaluate my own and
answers to questions	answers to questions	spoken and written	spoken and written	used to support or refute	other people's scientific
and to to questions	anomoro to questions	explanations, displays or	explanations, displays or	ideas or arguments	ideas using evidence from
		presentations of results	presentations of results	J J	a range of sources
		and conclusions	and conclusions		
I can collect and record	I can collect and record	I can use results to draw	I can use results to draw		I can group and classify
data to help answer	data to help answer	simple conclusions, make	simple conclusions, make		things and recognise
questions	questions	predictions for new	predictions for new		patterns
		values, suggest improvements and raise	values, suggest improvements and raise		
		further questions	further questions		
		I can explain differences,	I can identify differences,		I can find things out using
		similarities or changes	similarities or changes		a wide range of secondary
		related to simple	related to scientific ideas		sources of information
		scientific ideas and	and processes		
		processes	_		
		I can use straightforward	I can use scientific		I can use scientific
		scientific evidence to answer questions or to	evidence to answer questions or to support		language and ideas to explain, evaluate and
		support my findings	my findings		communicate my
		Support my mamas	my mangs		methods and findings

	Animals including Humans						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
I can spot and name a variety of common animals	I can explain that animals, including humans, have babies which grow into adults	I can identify that animals, including humans, need the right types and amount of nutrition, and that they get nutrition from what they eat	I can explain some parts of the digestive system in humans	I can describe the changes as humans develop to old age	I can identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood		
I can group animals according to what they eat	I can explain the needs of animals, including humans, for survival	I can explain why humans and some other animals have skeletons and muscles	I can explain the different types of teeth in humans and what they do		I can recognise the impact of diet, exercise, drugs and lifestyle on the way the body functions		
I can spot and name a variety of common animals that are carnivores, herbivores and omnivores	I can explain the importance of exercise, eating healthily and keeping clean		I can describe and explain a variety of food chains, naming producers, predators and prey		I can describe the ways in which nutrients and water are transported within animals, including humans		
I can describe and compare the structure of a variety of common animals							
I can name, draw and label the basic parts of the human body and say which part of the body is to do with each sense							

	Plants Plants						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
I can name some	I can explain how seeds	I can explain what					
common wild and garden	and bulbs grow into	different parts of					
plants, including	plants	flowering plants do					
deciduous and evergreen							
trees							
I can name and describe	I can describe how plants	I can explore the					
the basic structure of a	need water, light and a	requirements of plants					
variety of common	suitable temperature to	for life and growth and					
flowering plants,	grow and stay healthy	how they vary from plant					
including trees		to plant					
		I can investigate the way					
		in which water is					
		transported within plants					
		I can explore the part that					
		flowers play in the life					
		cycle of flowering plants,					
		including pollination, seed formation and seed					
		dispersal					

	Living things and their habitats						
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
	I can explain the differences between things that are living, dead and things that have never been alive		I can show that living things can be grouped together in various ways	I can describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird	I can describe how plants, animals and micro-organisms are classified into broad groups according to common observable characteristics and based on similarities and differences		
	I can explain that most living things live in habitats which suit them and depend on each other		I can explore and use classification keys to help group, identify and name a variety of living things	I can describe how some animals and plants reproduce	I can give reasons for classifying plants and animals based on specific characteristics		
	I can name some plants and animals in their habitats including micro- habitats		I can explain that environments can change and that this sometimes means that living things are put in danger				
	I can explain how animals get their food from plants and other animals using a simple food chain						

	Materials Materials Materials					
Year 1	Year2	Year 3	Year 4	Year 5	Year 6	
	Uses of everyday			Properties & changing of		
I can tell the difference between an object and the material from which it is made	I can say why I would choose a material for a particular job			I can explain that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution		
I can name a variety of everyday materials, including wood, plastic, glass, metal, water and rock	I can explain how objects made from some materials can be changed			I can use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating		
I can describe some everyday materials				I can give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic		
I can make groups of materials based on what they are like				I can demonstrate that dissolving, mixing and changes of state are reversible changes		
				I can explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning.		

		Ligi	ht		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
		I can explain that I need light in order to see things and that dark is the absence of light			I can show that light appears to travel in straight lines
		I can show that light is reflected from surfaces			I can explain that light travels in straight lines and that objects are seen because they give out or reflect light into the eye
		I can explain that light from the sun can be dangerous and that there are ways to protect eyes			I can demonstrate and explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
		I can show how shadows are formed when the light from a light source is blocked by a solid object			I can demonstrate that light travels in straight lines to show why shadows have the same shapes as the objects that cast them
		I can show that there are patterns in the way that the size of shadows change			

	Forces							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
		and magnets						
		I can compare how things		I can explain that				
		move on different		unsupported objects fall				
		surfaces		towards the Earth				
				because of the force of				
				gravity acting between				
				the Earth and the falling				
				object				
		I can see that some forces		I can demonstrate the				
		need contact between		effects of air resistance,				
		two objects, but magnetic		water resistance and				
		forces can act at a		friction, that act between				
		distance		moving surfaces				
		I can observe and group		I can show that some				
		some materials on the		mechanism, including				
		basis of whether they are		levers, pulleys and gears,				
		attracted to a magnet,		allow a smaller force to				
		and identify some		have a greater effect				
		magnetic materials						
		I can describe magnets as						
		having two poles						
		I can predict whether two						
		magnets will attract or						
		repel each other, depending on which poles						
		are facing						
		are racing						

	Electricity							
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
			I can talk about common appliances that run on electricity		I can show that the brightness of a lamp or the volume of a buzzer depends on the number and voltage of cells used in the circuit			
			I can construct and draw with labels a simple series electrical circuit which includes cells, wires, bulbs, switches and buzzers		I can compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches			
			I can predict if a lamp will light or not in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery		I can draw a diagram using recognised symbols to represent a simple circuit			
			I can explain that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit					
			I can show that some materials are conductors and some are insulators, and can explain that metals are good conductors					

		Seasona	l changes		
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
I can explain changes					
through the seasons					
I can describe the					
weather in autumn,					
winter, spring, summer					
and that the days get					
longer and shorter					
		Ro	cks		
	Year 2	Year 3	Year 4	Year 5	Year 6
		I can examine and do			
		practical experiments on			
		various types of rocks in			
		order to group them on			
		the basis of their			
		appearance and simple			
		physical properties			
		I can simply describe how			
		fossils are formed when			
		things that have lived are			
		trapped within rock			
		I can explain that soils are			
		made from rocks and			
		organic matter			

Year 1 Year 2 Year 3	Year 4 I can explain how sounds	Year 5	Year 6
	I can explain how sounds		
	are made, and show that		
	some of them are linked		
	to vibrations		
	I can explain that		
	vibrations from sounds		
	travel through a medium		
	to the ear		
	I can find patterns		
	between the pitch of a		
	sound and features of the		
	object that produced it		
	I can show that there is a		
	pattern between the		
	volume of a sound and		
	the strength of the		
	vibrations that produced		
	it		
	I can show that sounds		
	get fainter as the distance		
	from the sound source		
	increases		
States of	f matter		
	I can group materials		
	together, according to		
	whether they are solids,		
	liquids or gases including		
	tricky ones like gels, mists		
	and pastes		
	I can demonstrate and		
	explain that some		
	materials change state		
	when they are heated or		
	cooled, and measure or		

			research the temperature at which it happens in degree Celsius (°C) I can correctly talk about the part played by evaporation and condensation in the water cycle and can show a link		
			between the rate of evaporation and		
	-	1 1 C	temperature	V. C	
Va 4		•	lution and Inheritance		V C
Year 1	Year 2	Year 3	Year 4	Year 5 I can describe the movement of the Earth, and other planets, relative to the Sun in the solar system	Year 6 I can explain that the kinds of living things that live on the earth now are different from those that inhabited the Earth millions of years ago and that fossils provide this information
				I can explain day and night and the apparent movement of the sun across the sky using the idea of the Earth's rotation	I can explain that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
				I can describe the Sun, Earth and Moon as approximately spherical bodies I can describe the movement of the Moon relative to the Earth	I can give examples of how animals and plants are adapted to suit their environment in different ways and can explain that adaptation may lead to evolution

Evolution and inheritance					
Year 1	Year 2	Year 3	Year 4	Year 5	Year 6