

Science	Year 1	Year 2	Year 3	Year 4	<u>Year 5</u>	<u>Year 6</u>				
Vocabulary specific to the topic	specific to the have an engaging vocabulary focused lesson starter. (10-15mins - topic specific and challenging).									
			Scientific enquiry							
Asking questions	-ask simple question they can be answere	s and recognise that d in different ways		•	-plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary					
Recording and measuring	-observe closely, using simple equipment - perform simple tests - gather and record data to help in answering questions		-make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers -record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables -gather, record, classify and present data in a variety of ways to help in answering questions		-take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate -record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs					



<u>Concluding</u>	-identify and classify -use their observations and ideas to suggest answers to questions		-identify differences, similarities or changes related to simple scientific ideas and processes -report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions -use straightforward scientific evidence to answer questions or to support their findings		-identify scientific evidence that has been used to support or refute ideas or arguments -report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations -use test results to make predictions	
Cvaldaring			make predictions for new values, suggest improvements and raise further questions		to set up further comparative and fair tests	
			<u>Topics</u>			
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<u>Plants</u>	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers			



	Identify and describe the basic structure of a variety of common flowering plants, including trees.	temperature to grow and stay healthy.	Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant Investigate the way in which water is transported within plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.			
Animals, including humans	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Notice that animals, including humans, have offspring which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Describe the changes as humans develop to old age	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function Describe the ways in which nutrients and water are transported within animals, including humans.



Every materials	Distinguish between an	Identify and compare the		Properties and	
	object and the material	suitability of a variety of		changes of	
	from which it is made.	everyday materials,		materials	
		including wood, metal,			
	Identify and name a	plastic, glass, brick, rock,		Compare and group	
	variety of everyday	paper and cardboard for		together everyday	
	materials, including wood,	particular uses		materials on the basis of	
	plastic, glass, metal, water,			their properties, including	
	and rock.			their hardness, solubility,	
				transparency, conductivity	
	Describe the simple			(electrical and thermal),	
	physical properties of a	Find out how the shapes of		and response to magnets	
	variety of everyday	solid objects made from			
	materials.	some materials can be		Know that some materials	
		changed by squashing,		will dissolve in liquid to	
	Compare and group	bending, twisting and		form a solution, and	
	together a variety of	stretching		describe how to recover a	
	everyday materials on the			substance from a solution	
	basis of their simple				
	physical properties.			Use knowledge of solids,	
				liquids and gases to decide	
				how mixtures might be	
				separated, including	
				through filtering, sieving	
				and evaporating	
				Give reasons, based on	
				evidence from comparative	
				and fair tests, for the	
				particular uses of	
				everyday materials,	
				including metals, wood and	
				plastic	
				'	
				Demonstrate that	
				dissolving, mixing and	
				changes of state are	
				reversible changes	
				•	
				Explain that some changes	
				result in the formation of	
				new materials, and that	
				this kind of change is not	



Seasonal Changes	Observe changes across the four seasons Observe and describe weather associated with the seasons and how day length Varies			usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	
Living things and their habitats		Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other Identify and name a variety of plants and animals in their habitats, including microhabitats Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food.	Recognise that living things can be grouped in a variety of ways Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment Recognise that environments can change and that this can sometimes pose dangers to living things.	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 how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals Give reasons for classifying plants and animals based on specific characteristics.



Deales		Compare and group together		
Rocks		different kinds of rocks on		
		the basis of their		
		appearance and simple		
		physical properties		
		physical properties		
		Describe in simple terms		
		how fossils are formed		
		when things that have lived		
		are trapped within rock		
		are trapped within rock		
		Recognise that soils are		
		made from rocks and		
		organic matter		
Link		Recognise that they need		Recognise that light
<u>Light</u>		light in order to see things		appears to travel in
		and that dark is the		straight lines
		absence of light		311 digiti lines
		absence of light		Use the idea that light
				travels in straight lines
		Notice that light is		
		reflected from surfaces		to explain that objects are seen because they
		Recognise that light from		give out or reflect light
		the sun can be dangerous		into the eye
		and that there are ways to		
				Explain that we see
		protect their eyes		things because light
				travels from light
		Recognise that shadows are		sources to our eyes or
		formed when the light from		from light sources to
		a light source is blocked by		objects and then to our
		an opaque object		eyes
				Use the idea that light
		Find patterns in the way		travels in straight lines
		that the size of shadows		to explain why shadows
		change.		have the same shape as
				the objects that cast
				them.



F	Compare how things move on		Explain that unsupported	
Forces and	different surfaces		objects fall towards the	
Magnets	different surfaces		Earth because of the	
	Notice that some forces		force of gravity acting	
	need contact between two		between the Earth and the	
	objects, but magnetic		falling object	
	forces can act at a distance			
	,		Identify the effects of	
			air resistance, water	
	Observe how magnets		resistance and friction,	
	attract or repel each other		that act between moving	
	and attract some materials		surfaces	
	and not others			
			Recognise that some	
	Compare and group together		mechanisms, including	
			levers, pulleys and gears,	
	a variety of everyday		allow a smaller force to	
	materials on the basis of		have a greater effect.	
	whether they are attracted		nave a greater effect.	
	to a magnet, and identify			
	some magnetic materials			
	Describe magnets as having			
	two poles			
	Two poles			
	Predict whether two			
	magnets will attract or			
	repel each other, depending			
	on which poles are facing.			
States of Matter		Compare and group materials		
Olules of muller		together, according to		
		whether they are solids, liquids		
		or gases		
		Observe that some materials		
		change state when they are		
		heated or cooled, and measure		
		or research the temperature		
		at which this happens in		
		degrees Celsius (°C)		
		T1 116 11 1 1 1 1 1		
		Identify the part played by		
		evaporation and condensation		



		in the meter male and	
		in the water cycle and	
		associate the rate of	
		evaporation with temperature.	
Sound		Identify how sounds are made,	
<u> </u>		associating some of them with	
		something vibrating	
		Recognise that vibrations from	
		sounds travel through a	
		medium to the ear	
		medium to the edi-	
		Et la	
		Find patterns between the	
		pitch of a sound and features	
		of the object that produced it	
		Find patterns between the	
		volume of a sound and the	
		strength of the vibrations that	
		produced it	
		produced in	
		Danamida that dayinda ant	
		Recognise that sounds get	
		fainter as the distance from	
		the sound source increases.	
Electricity		Identify common appliances	
		that run on electricity	
		Construct a simple series	
		electrical circuit, identifying	
		and naming its basic parts,	
		including cells, wires, bulbs,	
		switches and buzzers	
		SWITCHES WIND DUZZETS	
		Tiloudi Combadhan anns de la	
		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	
		Recognise that a switch opens	
		and closes a circuit and	
		una croses a circuit ana	



		associate this with whether or		
		not a lamp lights in a simple		
		series circuit		
		Recognise some common		
		conductors and insulators, and		
		associate metals with being		
		good conductors		
Earth and Space			Describe the movement of	
carm and opace			the Earth, and other	
			planets, relative to the	
			Sun in the solar system	
			Describe the movement of	
			the Moon relative to the	
			Earth	
			24	
			Nagamika tha Con Canth	
			Describe the Sun, Earth	
			and Moon as approximately	
			spherical bodies	
			Use the idea of the	
			Earth's rotation to explain	
			day and night and the	
			apparent movement of the	
			sun across the sky.	
Evolution and				Recognise that living
				things have changed
inheritance				over time and that
				fossils provide
				information about living
				things that inhabited
				the Earth millions of
				years ago
				, ca. c ago
				Danamina that living
				Recognise that living
				things produce offspring
				of the same kind, but
				normally offspring vary
				and are not identical to
				their parents



			Identify how animals
			and plants are adapted
			to suit their
			environment in different
			ways and that
			adaptation may lead to
			evolution.