Summercourt Academy Science

*In addition, please see EYFS Progression grids.

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	asking simple	asking simple	asking relevant	asking relevant	with prompting, plan	planning different
	•	•	e e	e e		
	questions when	questions and	questions when	questions and using	different types of	types of scientific
	prompted	recognising that they	prompted	different types of	scientific enquiries to	enquiries to answer
		can be answered in		scientific enquiries to	answer questions	questions, including
	make relevant	different ways	setting up simple	answer them		recognising and
	observations		practical enquiries,		with prompting,	controlling variables
		Observing closely,	comparative and fair	setting up simple	recognise and control	where necessary
	performing simple	using simple	tests	practical enquiries,	variables where	
	tests, with support	equipment		comparative and fair	necessary	taking measurements
			making systematic	tests		using a range of
	identifying and	performing simple	observations using		select, with	scientific equipment,
	classifying	tests	simple equipment	making systematic	prompting, and use	with increasing
				and careful	appropriate	accuracy and
	use observations and	identifying and	With prompting, use	observations and,	equipment to take	precision, taking
	ideas to suggest	classifying	various ways of	where appropriate,	readings	repeat readings wher
	answers to questions	, 0	, recording, grouping	taking accurate		appropriate
		using their	and displaying	measurements using	take precise	
	with prompting	observations and	evidence	standard units, using a	measurements using	recording data and
	suggest how findings	ideas to suggest		range of equipment,	standard units	results of increasing
	could be recorded	answers to questions	suggest how findings	including		complexity using
			could be reported	thermometers and	take and process	scientific diagrams
		gathering and		data loggers	repeat readings	and labels,
		recording data to help	with prompting,		repeat readings	classification keys,
		in answering		gathering, recording,	record data and	tables, scatter graphs
		•	suggest conclusions	classifying and	results	bar and line graphs
		questions	from enquiries	presenting data in a	results	
			identifying	variety of ways to help		using test results to
			differences,			make predictions to
			similarities or changes			set up further



related to simple	in answering	record data using	comparative and fair
scientific ideas and	questions	labelled diagrams,	tests
processes		keys, tables and charts	
	recording findings		reporting and
using straightforward	using simple scientific	use line graphs to	presenting findings
scientific evidence to	language, drawings,	record data	from enquiries,
answer questions or	labelled diagrams,		including conclusions,
to support their	keys, bar charts, and	report and present	causal relationships
findings.	tables	findings from	and explanations of
		enquiries, including	and a degree of trust
suggest possible	reporting on findings	conclusions and, with	in results, in oral and
improvements or	from enquiries,	prompting, suggest	written forms such as
further questions to	including oral and	causal relationships	displays and other
investigate	written explanations,		presentations
	displays or	with support, present	
	presentations of	findings from	identifying scientific
	results and	enquiries orally and in	evidence that has
	conclusions	writing	been used to support
			or refute ideas or
	using results to draw	with prompting,	arguments
	simple conclusions,	identify that not all	
	make predictions for	results may be	
	new values, suggest	trustworthy	
	improvements and		
	raise further questions	suggest how evidence	
		can support	
	identifying	conclusions	
	differences,		
	similarities or changes	suggest further	
	related to simple	comparative or fair	
	scientific ideas and	tests	
	processes		

				using straightforward scientific evidence to answer questions or to support their findings.	
Plants	identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees	observe and describe how seeds and bulbs grow into mature plants find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers 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		

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	notice that animals, including humans, have offspring which grow into adults (SRE day) find out about and describe the basic	formation and seed dispersal 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	describe the simple functions of the basic parts of the digestive system in humans identify the different types of teeth in humans and their	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
	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)	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	what they eat identify that humans and some other animals have skeletons and muscles for support, protection and movement	simple functions construct and interpret a variety of food chains, identifying producers, predators and prey		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
	identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense (SRE day)					
Everyday Materials	distinguish between an object and the	identify and compare the suitability of a variety of everyday				

	material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials on the basis of their simple physical properties	materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching			
Seasonal Changes	observe changes across the 4 seasons (autumn, winter, spring, summer)	observe and describe weather associated with the seasons and how day length varies			
Living things and their habitats		explore and compare the differences between things that are living, dead, and	recognise that living things can be grouped in a variety of ways	describe the differences in the life cycles of a mammal,	describe how living things are classified into broad groups according to common observable

	been aliv identify t living thir habitats are suited describe habitats	hat most ngs live in to which they d and how different provide for needs of	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	an amphibian, an insect and a bird describe the life process of reproduction in some plants and animals.	characteristics and based on similarities and differences, including micro- organisms, plants and animals give reasons for classifying plants and animals based on specific characteristics
	and how on each of identify a variety of animals i habitats, microhab describe obtain th plants an animals, idea of a chain, an	and name a f plants and n their including bitats how animals eir food from d other using the simple food d identify	can sometimes pose dangers to living things		
Rocks	and name	e different of food compare and group together different kinds of rocks on the			

		basis of their appearance and simple physical properties describe in simple terms how fossils are formed when things that have lived are trapped within rock recognise that soils are made from rocks and organic matter		
Light	recognise that they need light in order to see things and that dark is the absence of light notice that light is reflected from surfaces recognise that light from the sun can be dangerous and that there are ways to protect their eyes recognise that shadows are formed			recognise that light appears to travel in straight lines use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to

	when the light from a light source is blocked by an opaque object find patterns in the way that the size of shadows change			objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
Forces and Magnets	compare how things move on different surfacesnotice that some forces need contact between 2 objects, but magnetic forces can act at a distanceobserve how magnets attract or repel each other and attract some materials and not otherscompare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify	u fr b o b a i c a r f f b b s s r f f b g f c	explain that insupported objects all towards the Earth because of the force of gravity acting between the Earth and the falling object dentify the effects of air resistance, water resistance and riction, that act between moving surfaces ecognise that some nechanisms including evers, pulleys and gears allow a smaller orce to have a greater effect	

	some magnetic			
	materials			
	describe magnets as			
	having 2 poles			
	predict whether 2			
	magnets will attract or			
	repel each other,			
	depending on which			
	poles are facing			
	P			
States of matter,				
		compare and group	compare and group	
Properties and		materials together,	together everyday	
changes of materials		according to whether	materials on the basis	
		they are solids, liquids	of their properties,	
		or gases	including their	
		of gases	hardness, solubility,	
		a haa maa tiha taa maa		
		observe that some	transparency,	
		materials change state	conductivity (electrical	
		when they are heated	and thermal), and	
		or cooled, and	response to magnets	
		measure or research		
		the temperature at	know that some	
		which this happens in	materials will dissolve	
		degrees Celsius (°C)	in liquid to form a	
			solution, and describe	
		identify the part	how to recover a	
		played by evaporation	substance from a	
		and condensation in	solution	
		the water cycle and		
		associate the rate of	use knowledge of	
			solids, liquids and	

Г		
	evaporation with	gases to decide how
	temperature	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
		reversible changes
		oveloin that come
		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 and the action
		of acid on bicarbonate
		of soda

Sound	identify how sounds are made, associating some of them with something vibrating	
	recognise that vibrations from sounds travel through a medium to the ear	
	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	
	recognise that sounds get fainter as the distance from the sound source increases	
Electricity	identify common appliances that run on electricity	associate the brightness of a lamp or the volume of a buzzer with the

		construct a simple		number and voltage
		construct a simple		-
		series electrical		of cells used in the
		circuit, identifying and		circuit
		naming its basic parts,		
		including cells, wires,		compare and give
		bulbs, switches and		reasons for variations
		buzzers		in how components
				function, including the
		identify whether or		brightness of bulbs,
		not a lamp will light in		the loudness of
		a simple series circuit,		buzzers and the on/off
		based on whether or		position of switches
		not the lamp is part of		
		a complete loop with		use recognised
		a battery		symbols when
				representing a simple
		recognise that a		circuit in a diagram
		switch opens and		
		closes a circuit and		
		associate this with		
		whether or not a lamp		
		lights in a simple		
		series circuit		
		Series circuit		
		rocognico como		
		recognise some		
		common conductors		
		and insulators, and		
		associate metals with		
		being good		
		conductors		
Earth and Space			describe the	
			movement of the	

			Earth and other planets relative to the sun in the solar system describe the movement of the moon relative to the Earth 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 Inheritance				recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago 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