Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
WS i) asking simple ?s & recognising they can be answered in different ways	WS i) asking simple ?s & recognising they can be answered in different ways	WS i) asking relevant questions & using different types of scientific enquiries to answer them	WS i) asking relevant questions & using different types of scientific enquiries to answer them	WS i) plan diff types of scientific enquiries to answer questions, including recognising & controlling variables	WS i) plan diff types of scientific enquiries to answer questions, including recognising & controlling variables
WS ii) observing closely, using simple	WS ii) observing closely, using simple	WS ii) set up practical enquiries, comparative & fair tests WS iii) systematic observation & accurate measurement	WS ii) set up practical enquiries, comparative & fair tests WS iii) systematic observation & accurate measurement	WS ii) take measurements with accuracy & precision, taking repeat readings when appropriate	WS ii) take measurements with accuracy & precision, taking repeat readings when appropriate
equipment WS iii) performing simple tests	WS iii) performing simple tests	using standard units, using a range of equipment WS iv) gathering, recording, classifying & presenting data	using standard units, using a range of equipment WS iv) gathering, recording, classifying & presenting data	WS iii) record data & results of increasing complexity using scientific diagrams & labels, classification keys,	WS iii) record data & results of increasing complexity using scientific diagrams & labels, classification keys,
WS iv) identifying & classifying	WS iv) identifying & classifying	in a variety of ways to help in answering questions WS v) record findings using simple scientific language,	in a variety of ways to help in answering questions WS v) record findings using simple scientific language,	tables, scatter graphs, bar & line graphs WS iv) use test results to make predictions to set up	tables, scatter graphs, bar & line graphs WS iv) use test results to make predictions to set up
WS v) using observations & ideas to	WS v) using their observations & ideas to	drawings, labelled diagrams, keys, bar charts & tables WS vi) reporting on findings from enquiries	drawings, labelled diagrams, keys, bar charts, & tables WS vi) reporting on findings from enquiries	further comparative & fair tests	further comparative & fair tests WS v) report & present enquiry findings, including
suggest answers to questions WS vi) gathering & recording data to	ws vi) gathering & recording data to help	WS vii) using results to draw conclusions, make predictions for new values, suggest improvements & raise further ?s	WS vii) using results to draw conclusions, make predictions for new values, suggest improvements & raise further ?s	WS v) report & present enquiry findings, including conclusions, causal relationships & explanations of & degree of trust in results in oral & written forms	conclusions, causal relationships & explanations of degree of trust in results in oral & written forms
help in answering questions Pi) identify & name a variety of	in answering questions	WS viii) identifying differences, similarities or changes related to simple scientific ideas & processes	WS viii) identifying differences, similarities or changes related to simple scientific ideas & processes	WS vi) identify scientific evidence that has been used to support or refute ideas or arguments	WS vi) identify scientific evidence that has been used to support or refute ideas or arguments
common wild & garden plants, including deciduous & evergreen trees	LvHi) explore & compare the differences between things that are living, dead, & things that have never been alive	WS ix) use evidence to answer ?s or support findings P i) identify & describe functions of different parts of	WS ix) use evidence to answer ?s or support findings LvH i) describe differences in the life cycles of a mammal, an amphibian, an insect & a bird	LvH i) describe how micro-organisms, plants & animals are classified into groups. according to observable	
P ii) identify & describe the basic	ntify & describe the basic e of a variety of common LVH ii) identify that living things live in habitats & describe how diff habitats	flowering plants: roots, stem/trunk, leaves, & flowers P ii) explore the requirements of plants for life & growth &	LvH ii) explore & use classification keys to group, identify & name living things in their local & wider environment	LvH ii) describe reproduction process in plants & animals AH i) describe changes as humans develop to old age PCM i) compare & group together materials based on	characteristics & based on similarities & differences LvH ii) give reasons for classifying plants & animals based
flowering plants, including trees		how they vary from plant to plant P iii) investigate way water is transported within plants	LvH iii) recognise environments can change & that this can sometimes pose dangers to living things		on specific characteristics AH i) identify & name main pts of circulatory system &
AH i) identify & name variety of common animals including fish, reptiles	LvH iii) identify & name a variety of plants & animals in their habitats, including micro-habitats LvH iv) describe how animals obtain food from plants & other animals, using the idea of a simple food chain, & identify & name diff. sources of food	P iv) explore the part flowers play in the life cycle of plants AH i) identify that animals need right types & amount of	AH i) describe functions of human digestive system AH ii) identify diff types of human teeth & their functions AH iii) construct & interpret a variety of food chains, identifying producers, predators & prey SM i) company & group metarials together according to	describe functions of heart, blood vessels & blood AH ii) recognise the impact of diet, exercise, drugs & lifestyle on the way their bodies function	
amphibians, birds & mammals AH ii) identify & name a variety of		AH ii) identify that humans & some other animals have			AH iii) describe the ways in which nutrients & water are transported within animals, including humans
carnivores, herbivores & omnivores		R i) compare & group together diff kinds of rocks on the basis of their appearance & simple physical properties	SM i) compare & group materials together, according to whether they are solids, liquids or gases SM ii) observe that materials change state when heated	PCM iii) use knowledge of solids, liquids & gases to decide how mixtures might be separated, including through filtering, sieving & evaporating PCM iv) give reasons, based on evidence from comparative & fair tests, for the particular uses of	El i) recognise that living things have changed over time that fossils provide information about living things that
AH iii) describe & compare structure of common animals including pets		R ii) describe simply how fossils are formed when things that have lived are trapped within rock	or cooled & measure or research temperature at which		inhabited the Earth millions of years ago El ii) recognise living things produce offspring of the same
AH iv) identify, name, draw & label parts of human body & say which part	P i) observe and describe how seeds & bulbs grow into mature plants	R iii) recognise soils are rocks & organic matter	SM iii) identify evaporation & condensation in water cycle & associate the rate of evaporation with temperature	everyday materials, including metals, wood & plastic	kind, but offspring are not identical to their parents El iii) identify how animals & plants are adapted to suit
of body is associated with each sense	P ii) describe how plants need water, light & suitable temps to grow & stay healthy	Li) recognise that they need light in order to see things and that dark is the absence of light	S i) identify how sounds are made, associating some of them with something vibrating	PCM v) demonstrate that dissolving, mixing & changes of state are reversible changes	their environment in different ways & that adaptation may lead to evolution
EM i) distinguish between object & the material from which it is made	AH i) notice that animals incl humans	Lii) notice light is reflected from surfaces Liii) recognise that light from the sun can be dangerous &	S ii) recognise that vibrations from sounds travel through a medium to the ear	PCM vi) explain some changes form new materials & are not usually reversible, including changes associated with burning & the action of acid on bicarb of soda	Li) recognise that light appears to travel in straight lines Lii) use Li) to explain that objects are seen because they
EM ii) identify & name a variety of everyday materials, including wood, plastic, glass, metal, water & rock	have offspring which grow into adults AH ii) describe basic needs of animals incl humans for survival (water, food & air)	that there are ways to protect their eyes L iv) recognise shadows are formed when the light from a light source is blocked by an opaque object	S iii) find patterns between the pitch of a sound & features of the object that produced it S iv) find patterns between the volume of a sound & the	ES i) describe movement of Earth, & other planets, relative to Sun in solar system	give out or reflect light into the eye L iii) explain that we see things because light travels from light sources to our eyes or from light sources to objects
EM iii) describe simple physical	AH iii) describe importance for humans of exercise, eating the right amounts of different types of food, & hygiene	L v) find patterns in way that the size of shadows change FM i) compare how things move on different surfaces	strength of the vibrations that produced it S v) recognise that distance increases faintness of sound	ES ii) describe movement of the Moon relative to Earth ES iii) describe Sun, Earth & Moon as approximately	& then to our eyes Liv) use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
properties of everyday materials		FM ii) notice some forces need contact between two objects, but magnetic forces can act at a distance	E i) identify common appliances that run on electricity E ii) construct a simple series electrical circuit, identifying	spherical bodies ES iv) use idea of Earth' s rotation to explain day & night	
EM iv) compare & group everyday materials on the basis of their simple	EM i) compare suitability of wood, metal, plastic, glass, brick, rock, paper & cardboard for particular uses	FM iii) observe how magnets attract or repel each other & attract some materials & not others	& naming its basic parts E iii) identify if a lamp will light in a series circuit, based on		E i) associate brightness of a lamp or volume of a buzzer with the number & voltage of cells used in the circuit
physical properties SC i) observe changes across seasons		FM iv) compare & group variety of materials on basis of attraction to a magnet & identify magnetic materials	whether it is part of a complete loop with a battery E iv) recognise that a switch opens & closes a circuit &		
SC ii) describe weather associated with	EM ii) know that shapes of some solid objects can be changed by squashing, bending, twisting & stretching	FM v) describe magnets as having two poles FM vi) predict if two magnets will attract or repel each	associate this with a lamp lighting in a series circuit E v) recognise some common conductors & insulators, &	that act between moving surfaces	the loudness of buzzers & the on/off position of switche E iii) use recognised symbols to represent circuit in a
seasons & how day length varies		other, depending on which poles are facing	associate metals with being good conductors	Fiii) recognise some mechanisms, includ levers, pulleys & gears, allow a smaller force to have a greater effect	diagram

Year 1	WS = Working scientifically; P = Plants; AH = Animals including humans; EM = Everyday materials; SC = Seasonal changes
Year 2	WS = Working scientifically; LvH = Living things and their habitats; P = Plants; AH = Animals including humans; EM = Everyday materials
Year 3	WS = Working scientifically; P = Plants; AH = Animals including humans; R = Rocks; L = Light; FM = Forces and magnets
Year 4	WS = Working scientifically; LvH = Living things and their habitats; AH = Animals including humans; SM = States of matter; S = Sound; E = Electricity
Year 5	WS = Working scientifically; LvH = Living things and their habitats; AH = Animals including humans; PCM = Properties and changes of materials; ES = Earth and space; F = Forces
Year 6	WS = Working scientifically; LvH = Living things and their habitats; AH = Animals including humans; EI = Evolution and inheritance; L = Light; E = electricity