

	Year 1 Year 2	Year 3	Year 4	Year 5 Year 6	
Working Scientifically	 ask simple questions and recognising that they can be answered in different ways observe closely, using simple equipment perform simple tests identify and classify use their observations and ideas to suggest answers to questions gather and record data to help in answering questions 	 ask relevant questions and using different types of scientific enquiries to answer them set up simple practical enquiries, comparative and fair tests make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers gather, record, classify and present data in a variety of ways to help in answering questions record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identify differences, similarities or changes related to simple scientific ideas and processes use straightforward scientific evidence to answer questions or to support their findings 		 plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 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 use test results to make predictions to set up further comarative and fair tests report and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations identify scientific evidence that has been used to support or refute ideas or arguments 	
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 identify and name a variety oseeds 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 formation and seed dispersal			



their		 compare living, dead and never alive identify that most living 		 recognise living things can be grouped in different ways 	describe the differences in the life cycles of a mammal, amphibian,	describe how living things are classified into broad groups according to
Living Things & th Habitats		things live in habitats to which they are suited, describe how different habitats provide the basic needs of different 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 get food from plants/animals, use simple food chains, identify different sources of food.		 use classification keys to help group, identify and name living things in their local/wider environment recognise environments can change and that this can sometimes pose dangers to living things. 	insect and bird describe the life process of reproduction in some plants and animals	common observable characteristics, based on similarities and differences, including microorganisms, plants and animals give reasons for classifying plants and animals based on specific characteristics.
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 describe the basic needs of animals, including humans, for survival (water food, air) describe the importance for humans of exercise, eating the right amounts of different foods, & hygiene	identify that animals, including humans, need the right types/amount of nutrition, and can't 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 simple functions of the digestive system in humans identify human teeth types and their simple functions construct and interpret a variety of food chains, identifying producers, predators and prey	 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 describe the changes as humans develop to old age 	



Evolution and Inheritance			compare and group different kinds of rocks by 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.	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.
Materials	 distinguish between an object and the material from which it is made identify and name a variety of everyday materials, e.g. wood, plastic, glass, metal, water, rock describe the simple physical properties of a variety of everyday materials compare and group together a variety of everyday materials using simple physical properties. 	identify and compare the suitability of everyday 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, stretching.	materials according to whether they are solids, liquids or gases bobserve that some materials change state when they are heated or cooled, measure or research the temperature this happens in °C identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. be demonstrated in the water cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature. cycle and associate the rate of evaporation with temperature.	re & group everyday als using properties, ardness, solubility, arency, conductivity cal & thermal), and se to magnets nat some materials e in liquid to form a n, describe how to r the substance owledge of solids, and gases to decide xtures might be ted (filtering, sieving aporating) asons, based on oce from testing, for ticular uses of ay materials e.g. , wood and plastic strate that ing, mixing and es of state are bele changes I that some changes on the formation of caterials; this kind of e is not usually bele, e.g. burning and



		the action of acid on bicarbonate of soda.	
		and a substitute of the substi	
Light	recognise that light is needed to see things, and dark is the absence of light notice that light is reflected from surfaces recognise light from the sun can be dangerous, and we can protect our eyes recognise that shadows are formed when the light from a light source is blocked by an opaque object find patterns in the way that the size of shadows change.	recognise that light appears to travel in strailines use the idea that light travels in straight lines explain that objects are seen because they give out or reflect light into teye explain that we see thir because light travels from light sources to our eye from light sources to objects, then to our eye use the idea that light travels in straight lines explain why shadows he	to e e the ngs om es or es to nave
		the same shape as the objects that cast them.	
& Magnets	compare how things move on different surfaces notice that some forces need contact between two objects, but magnetic forces can act at a distance observe how magnets attract or repel each other and attract some materials and not others	explain that unsupported objects fall towards the Earth because of the food for gravity acting between the Earth and the falling object identify the effects of air resistance, water resistance and friction, act between moving surfaces	ed er orce en g
Forces &	 compare & group everyday materials that are attracted to a magnet, and identify some magnetic materials describe magnets as having two poles predict whether 2 magnets will attract or repel each other, depending on which poles are facing each other 	recognise that some mechanisms, including levers, pulleys and gea allow a smaller force to have a greater effect	ars,



Sound	identify how sounds are made, linking some of them with something vibrating recognise that vibrations from sounds travel through a medium to the ear find patterns between pitch and the 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	aggregate the brightness of
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 identify if 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 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.	 associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit 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 use recognised symbols when representing a simple circuit in a diagram.



> observe changes across the four seasons observe & describe the measurement of the Earth, and other planets, relative to the Sun in the solar system of describe the Moon's movement relative to Earth describe the Moon's movement relative to 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.	
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