	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Animals including humans	Seasonal Changes (Autumn and Winter)	Plants	Plants	Seasonal Changes (Spring and Summer)	Everyday Materials
Year 2	Uses of every day materials	Living things and their habitats	Animals including humans	Animals including humans	Plants	The Environment
Year 3	Rocks	Forces and magnets	Animals including humans	Animals including humans	Light	Plants
Year 4	States of Matter	Sound	Electricity	Electricity	Animals including humans	Living things and their habitats
Year 5	Forces	Living things and their habitats	Earth and Space	Earth and Space	Properties and Changes of Materials	Animals including humans
Year 6	Electricity	Animals including humans	Light	Light	Living things and their habitats	Evolution and inheritance

Key Stage 1 Curriculum Year 1 Science Objectives	Seasonal Changes (Aut/Win)	Everyday Materials	Animals, including humans	Plants	Seasonal Changes (Spr/Sum)
Science					
Working Scientifically					
ask simple questions and recognise 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					
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					
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			
Everyday Materials			
distinguish between an object and the 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			
Seasonal Changes			
observe changes across the four seasons			
observe and describe weather associated with the seasons and how day length varies			

Key Stage 1 Curriculum Year 2 Science Objectives	Uses of Everyday Materials	Living things and their habitats	Animals, including humans	Plants	The Environm ent
Science					
Working Scientifically					
ask simple questions and recognise 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.					
Plants					
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					
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					

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identify and name a variety of plants and animals in their habitats, including micro-			
habitats			
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			
Animals including humans			
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			
Uses of Everyday Materials			
identify and compare the suitability of a variety 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 and stretching			
The Environment			
learn about climate change in simple terms			
understand that human behaviour can impact upon the environment, including			
understanding how reducing the amount of energy used and reducing, reusing and			
recycling can impact positively on the environment			
investigate how water can be saved			
understand the importance of the rainforest and identify some of the animals which live			
there			
conduct simple research about endangered animals			

Lower Key Stage 2 Curriculum Year 3 Science Objectives	Rocks	Forces and Magnets	Animals, including humans	Plants	Light
Science					
Working Scientifically					
ask relevant questions and use 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, take accurate measurements using standard units, use 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					
Plants					
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			
Rocks			
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			
Animals, including humans			
identify that animals, including humans, need the right types and amounts 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			
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 the light from the sun can be dangerous and that there are ways to protect their 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			
Forces and 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 but not			
others			
compare and group together a variety of everyday materials on the basis of whether or			
not they are attracted to a magnet, and identify some magnetic materials			
describe magnets as having two poles			
predict whether two magnets will attract or repel each other, depending on which poles			
are facing			

Lower Key Stage 2 Curriculum Year 4 Science Objectives	Sound	States of Matter	Animals, including humans	Electricit y	Living things and their habitats
Science					
Working Scientifically					
ask relevant questions and use 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, take accurate measurements using standard units, use a range of equipment, including thermometers and data loggers					
gather, record, classify and present data in a variety of ways to help in answering guestions					
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					
Living things and their habitats					
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	1		
living things			
States of Matter			
compare and group materials 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)			
identify the part played by evaporation and condensation in the water cycle and associate			
the rate of evaporation with temperature			
Animals, including humans			
describe the simple functions of the basic parts of the digestive system in humans		 	
identify the different types of teeth in humans and their simple functions			
construct and interpret and variety of food chains, identifying producers, predators and		 	
prey			
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	1		
produced it			
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			
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 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			

Upper Key Stage 2 Curriculum Year 5 Science Objectives	Forces	Living things and their habitats	Animals, including humans	Earth and Space	Propertie s and changes to materials
Science					
Working Scientifically					
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 comparative and fair tests					
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					
identify scientific evidence that has been used to support or refute ideas or arguments					
Living things and their habitats					
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					
Forces					
explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object					

identify the effects of air resistance, water resistance and friction, that act between			
moving surfaces			
recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force			
to have a greater effect			
Animals including humans			
describe the changes as humans develop to old age			
Properties and changes of materials			
compare and group together everyday materials on the basis of their properties,			
including their hardness, solubility, transparency, conductivity (electrical and thermal),			
and response to magnets			
know that some materials will dissolve in liquid to form a solution, and describe how to			
recover a substance from a solution			
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 usually reversible, including changes associated with burning and the action			
of acid on bicarbonate of soda			
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			

Upper Key Stage 2 Curriculum	Evolution	Living	Animals,	Electricit	Light
Year 6 Science Objectives	and Inheritanc	things and their	including humans	У	
	e	habitats	namans		
Science					
Working Scientifically					
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 comparative and fair tests					
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					
identify scientific evidence that has been used to support or refute ideas or arguments					
Living things and their habitats					
describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals					
give reasons for classifying plants and animals based on specific characteristics					
Evolution and Inheritance					

		1	
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			
Animals including humans			
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			
Light			
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 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			
Electricity			
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			