

Key Stage 1

Year group	Subject	Objectives
1 & 2	Science Working scientifically	<ul style="list-style-type: none"> *asking simple questions and recognising that they can be answered in different ways *observing closely, using simple equipment *performing simple tests *identifying and classifying *using their observations and ideas to suggest answers to questions *gathering and recording data to help in answering questions.
1 & 2	Art	<ul style="list-style-type: none"> *to use a range of materials creatively to design and make products *to use drawing, painting and sculpture to develop and share their ideas, experiences and imagination *to develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space
1 & 2	Geography	<p>Human and physical geography</p> <ul style="list-style-type: none"> *identify seasonal and daily weather patterns in the United Kingdom and the location of hot and cold areas of the world in relation to the Equator and the North and South Poles *use basic geographical vocabulary to refer to: <ul style="list-style-type: none"> -key physical features, including: beach, cliff, coast, forest, hill, mountain, sea, ocean, river, soil, valley, vegetation, season and weather -key human features, including: city, town, village, factory, farm, house, office, port, harbour and shop
1 & 2	Geography	<p>Geographical skills and fieldwork</p> <ul style="list-style-type: none"> *use simple compass directions (North, South, East and West) and locational and directional language [for example, near and far; left and right], to describe the location of features and routes on a map *use aerial photographs and plan perspectives to recognise landmarks and basic human and physical features; devise a simple map; and use and construct basic symbols in a key *use simple fieldwork and observational skills to study the geography of their school and its grounds and the key human and physical features of its surrounding environment.

Year 1

Year group	Subject	Objectives
1	Science 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.
1	Science 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.
1	Science 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.
1	Science Seasonal change	*observe changes across the four seasons *observe and describe weather associated with the seasons and how day length varies.

Year 2

Year group	Subject	Objectives
2	Science Living things and their habitats	<ul style="list-style-type: none"> *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 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.
2	Science Plants	<ul style="list-style-type: none"> *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.
2	Science Animals, including humans	<ul style="list-style-type: none"> *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.
2	Science Uses of everyday materials	<ul style="list-style-type: none"> *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.

Key Stage 2

Year group	Subject	Objectives
3 & 4	Science Working scientifically	<ul style="list-style-type: none"> *asking relevant questions and using different types of scientific enquiries to answer them *setting up simple practical enquiries, comparative and fair tests *making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers *gathering, recording, classifying and presenting data in a variety of ways to help in answering questions *recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables *reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions <p>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions identifying differences, similarities or changes related to simple scientific ideas and processes *using straightforward scientific evidence to answer questions or to support their findings.</p>
5 & 6	Science Working scientifically	<ul style="list-style-type: none"> *planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary *taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate *recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs *using test results to make predictions to set up further comparative and fair tests *reporting and presenting 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 *identifying scientific evidence that has been used to support or refute ideas or arguments.
3, 4, 5 & 6	Art	<ul style="list-style-type: none"> *to improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials [for example, pencil, charcoal, paint, clay]
3, 4, 5 & 6	Geography	<p>Geographical skills and fieldwork</p> <ul style="list-style-type: none"> *use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of Ordnance Survey maps) to build their knowledge of the United Kingdom and the wider world

Year 3

Year group	Subject	Objectives
3	Science Plants	<ul style="list-style-type: none"> *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.
3	Science Animals, including humans	<ul style="list-style-type: none"> *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.
3	Science Rocks	<ul style="list-style-type: none"> *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.
3	Science Light	<ul style="list-style-type: none"> *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 when the light from a light source is blocked by an opaque object *find patterns in the way that the size of shadows change.

Year 4

Year group	Subject	Objectives
4	Science 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 living things.
4	Science 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 a variety of food chains, identifying producers, predators and prey.
4	Science 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.

Year 5

Year group	Subject	Objectives
5	Science Living things and their habitats	<ul style="list-style-type: none"> *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.
5	Science Properties and changes of materials	<ul style="list-style-type: none"> *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.
5	Science Earth and space	<ul style="list-style-type: none"> *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.

Year 6

Year group	Subject	Objectives
6	Science 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.
6	Science 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.