	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	Is curious and interested to explore new and familiar experiences in nature  Can talk about some of the things they have observed  Notices detailed features of objects in their environment  Comments and asks questions about aspects of their familiar world  Talks about why things happen and how things work  Looks closely at similarities, differences, patterns and change  Makes observations and explains why some things occur	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.	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.	<ul> <li>asking relevant questions and using different types of scientific enquiries to answer them</li> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</li> <li>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</li> <li>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<ul> <li>asking relevant questions and using different types of scientific enquiries to answer them</li> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</li> <li>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</li> <li>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>	<ul> <li>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</li> <li>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</li> <li>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</li> <li>using test results to make predictions to set up further comparative and fair tests</li> <li>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</li> <li>identifying scientific evidence that has been used to support or refute ideas or arguments.</li> </ul>	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 result of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graph.  using test results to make predictions to set up further comparative and fair tests.  reporting and presenting findings from enquiries, including conclusions, cause 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.

Plants	<ul> <li>make close observations of conkers, leaves, pinecones and plants in the environment</li> <li>plant seeds and bulbs, observing how spring flowers grow</li> <li>talk about what a plant needs to grow and participate in caring for plants they have grown</li> <li>identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</li> <li>identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</li> <li>identify and name a variety of common flowering plants, including trees.</li> </ul>	<ul> <li>observe and describe how seeds and bulbs grow into mature plants</li> <li>find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</li> <li>investigate the way in which water is transported within plants.</li> <li>explore the part that flowers plants, including pollination, seed formation and seed dispersal.</li> </ul>	
All Living Things	<ul> <li>learn about         animals in the         local         environment and         their habitats</li> <li>explore the         outdoor spaces         for mini-beasts</li> </ul>	<ul> <li>explore and compare the differences</li> <li>between things that are living, dead, and things that have never been alive</li> <li>identify that most</li> </ul>	<ul> <li>recognise that living things can be grouped in a variety of ways</li> <li>explore and use classification keys to help group, identify and name a variety of living things in their local and wider</li> <li>describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird observable characteristics and based on similariti and differences, including micro-</li> </ul>

Animala		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 microhabitats  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.	environment  recognise that environments can change and that this can sometimes pose dangers to living things.	plants and animals.	organisms, plants and animals  give reasons for classifying plants and animals based on specific characteristics.
Animals, including Humans	<ul> <li>name a range of animals that they observe in their environment including insects,</li> <li>name farm animals and talk</li> <li>identify and name a variety of common animals including fish, amphibians, reptiles, birds of mammals</li> <li>identify and name identify and name farm</li> </ul>	animals, including humans, have humans, need the offspring which grow into adults  find out about and describe the basic animals, including humans, need the right types and amount of nutrition, and that they cannot make their any food; they get	<ul> <li>describe the simple functions of the basic parts of the digestive system in humans</li> <li>identify the different types of teeth in humans and their simple functions</li> </ul>	<ul> <li>describe the changes as humans develop to old age.</li> </ul>	"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

		about their needs for survival show care and concern for living things, discussing how to look after them and care for them whilst observing them observe and talk about the life cycles of chickens and butterflies explore their senses find out about how to keep happy and eat healthily, including dental hygiene.	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.	•	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.	identify that humans and some other animals have skeletons and muscles for support, protection and movement.	construct and interpret a variety of food chains, identifying producers, predators and prey.		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.
Materials	- 4	explore materials including sand and water. observe ice melting explore floating and sinking participate in cooking for example of	distinguish between an object and the material from which it is made identify and name a variety of everyday materials, including wood, plastic, glass,	-	identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for		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	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	

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bread pancakes and observe changes that occur	rock fin	nrticular uses nd out how the napes of solid	which this happens in degrees Celsius (°C)  identify the part	materials will dissolve in liquid to form a solution, and describe how to recover a
	properties of a fr variety of mo everyday ch materials sq	ojects made  rom some aterials can be manged by muashing, ending, twisting	played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	substance from a solution use knowledge of solids, liquids and gases to decide how
	together a variety of everyday materials on the basis of their	nd stretching.		mixtures might be separated, including through filtering, sieving and evaporating
	simple physical properties.			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.

Light & Sound	<ul> <li>explore torches and mirrors</li> <li>explore shadows outside and inside, experimenting with how they are made.</li> <li>Participate in a range of listening games</li> <li>Explore how sounds can be changed using musical instruments</li> </ul>	<ul> <li>recognise that they need light in order to see things and that dark is the absence of light</li> <li>notice that light is reflected from surfaces</li> <li>recognise that light from the sun can be dangerous and that there are ways to protect their eyes</li> <li>recognise that shadows are formed when the light from a light source is blocked by a solid object</li> <li>find patterns in the way that the size of shadows change.</li> <li>identify how sounds are made, associating some of them with something vibrating</li> <li>recognise that vibrations from sounds travel through a medium to the ear</li> <li>find patterns between the pitch of a sound and features of the object that produced it</li> <li>find patterns between the volume of a sound and the strength of the vibrations that produced it</li> <li>recognise that sounds get fainter as the distance from the sound source increases.</li> </ul>	<ul> <li>recognise that light appears to travel in straight lines</li> <li>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</li> <li>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</li> <li>use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.</li> </ul>
Earth & Space	<ul> <li>learn the names         of some celestial         bodies including         the Sun, the         Earth, the Moon         and some         planets.</li> <li>Observe         weather changes         throughout the         year</li> </ul>	describe the movement of the Earth, and other planets, relative Sun in the solar system     describe the movement of the relative to the E     describe the Su	to the  Moon  arth

				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.	
Seasonal Changes	changes they see in the leaves	<ul> <li>observe changes         across the four         seasons</li> <li>observe and         describe weather         associated with         the seasons and         how day length         varies.</li> </ul>			
Rocks			<ul> <li>compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</li> <li>describe in simple terms how fossils are formed when things that have lived are trapped within rock</li> <li>recognise that soils are made from rocks and organic matter.</li> </ul>		

Forces & Electricity	<ul> <li>explore         magnets and         sort objects         that can be         moved with a         magnet.</li> <li>investigate         how toys move         including a         range of pull-         back toys and         wind-up toys.</li> </ul>		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  compare and group together a variety of everyday materials on the basis of whether 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,	 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	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.		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.
Evolution & Inheritance			or repel each other, depending on which poles are facing.	associate metals with being good conductors.		•	recognise that living things have changed over time and that
							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
			<ul> <li>identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.</li> </ul>