T T T , T				
children's per parks, librarie firefighters. In understanding important kno	ding children to make sense of their physical world and their community. The frequency and range of sonal experiences increases their knowledge and sense of the world around them – from visiting as and museums to meeting important members of society such as police officers, nurses and n addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their g of our culturally, socially, technologically and ecologically diverse world. As well as building bwledge, this extends their familiarity with words that support understanding across domains. I widening children's vocabulary will support later reading comprehension.			
Term	Areas covered and opportunities provided for the children			
Autumn 1	The Natural World -			
Topic: All About Me	*Learn about what happens to plants and animals in autumn. Lok at non-fiction texts/ppts *Autumn walk around the school and outside the school grounds.			
Key vocabulary:	*Learn about hibernation – which animals hibernate and why			
autumn (leaves changing colour, dying, cold, weather, season), hibernation,				
Hibernate,				
Same, different, now, then				
Autumn 2	The Natural world – Forest School Explore the natural world around them			
Topic: Celebrations	* Make observations of signs of autumn / winter and notice how the FS environment is changing throughout the seasons.			
Key vocabulary: autumn (leaves changing colour, dying, cold, weather,	*Know what happens to plants, flowers and animals in the seasons of autumn and winter.			
season), Same, different, now, then, winter, cold, sniw, freezing, bare, dying, growth, Arctic, Antarctic, Bromsgrove,	*Identify cold places in the world (Arctic/Antarctic) and how it relates to where we live in Bromsgrove. Look at maps of the world/globe to identify Arctic/Antarctic and where we live in Bromsgrove. Look at similarities and differences in animals that live there / style of houses and the weather. Understand what life is like living in these colder places/environments.			
world, environment, polar bear, penguin, orca, seal, arctic, fox, arctic hare, ice,	*Read stories about animals living in cold places.			
melt, freeze,	*Understand the changing state of water – turning to ice. Experiment with making ice / melting ice / ice experiments/ painting with ice			

Spring 1	The Natural World -Forest School				
Topic: Pirates	Understand effect of changing seasons and compare environments				
	* Make observations of signs of winter/ spring and notice how the FS environment is changing throughout the seasons.				
Key vocabulary:	*Know what happens to plants, flowers and animals in the seasons of winter / spring.				
Autumn, winter, autumn (leaves	*Explore objects that float and sink – sail pirate ships on the pond				
changing colour, dying, cold, weather, season),	*Explore materials that are waterproof or not waterproof by competing simple investigations. Use knowledge of floating/sinking				
Same, different, now, then, winter, cold, snow, freezing, bare, dying, growth, environment, float, sink, material, waterproof, strong, weak, (Vaterproofing to design and make a pirate ship.					
Spring 2	The Natural World – Forest School				
Topic: All About Spring	*Understand effect of changing seasons and compare environments				
Key vocabulary:	* Make observations of signs of spring and notice how the FS environment is changing throughout the season winter to spring.				
Autumn, winter,	*Know what happens to plants, flowers and animals in the seasons of spring.				
Same, different, now, then,	*Look at frogspawn in the pond, take some back to the classroom to observe.				
Spring, growth, flowers, plants, seed, water, soil, sun, warmth, frogspawn,	*Go on a spring hunt – look at buds on trees, blossom, nests etc.				
frog, tadpole, life cycle, buds, leaves,	*Plant seeds, understand what plants need to grow well – sun, warmth, water, soil.				
changes,	*Look at the life cycle of a frog and the changes it goes throug				
Summer 1	The Natural World – Forest School				
Topic: Space	*Understand effect of changing seasons and compare environments				
Key vocabulary:	* Make observations of signs of spring and notice how the FS environment is changing throughout the season spring to summer.				
Autumn, winter, Spring, growth, flowers,	*Plant seeds (vegetables and flowers) understand what plants need to grow well – sun, warmth, water, soil.				
plants, seed, water, soil, sun, warmth, frogspawn, frog, tadpole, life cycle, buds,	*Play team games				
leaves, changes, summer, hot, warmer, vegetables, fruits, space, solar system,	*Know how to be safe around fires. Know what a fire needs to burn well.				
names of planets, gravity, Neil Armstrong, astronaut, UK,	*Can describe how space is different to Earth/Bromsgrove				
	*Talk about how each planet is different to Earth				

Summer 2	The Natural World -			
Topic: Minibeasts	Recognise some environments are different to the one in which they live.			
Key vocabulary:	*Read non-fiction about minibeasts.			
Autumn, winter, Spring, growth, seed,	*Learn rhymes/ songs about minibeasts.			
flowers, plants, water, soil, sun, warmth, frogspawn, frog, tadpole, life cycle, buds,	*What do mini beasts need that is different/ the same as human? Look in different habitats for minibeasts.			
leaves, changes, summer, hot, warmer, minibeasts, some names of minibeasts,	*Make minibeast hotels using natural materials.			
habitat, change	*Make drawings of minibeasts found in the environment.			
	*Use natural materials to make a minibeast.			
	*Can talk about how to be safe around fires. Know what a fire needs to burn well.			
	*Observe the life cycle of a butterfly. Caterpillars in class, watch how they grow and change. Talk about their own life cycle and how we grow and change. change.			

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Animals Including HumansTo know different parts of a human body.To discuss what different parts of the body do.To learn about the 5 senses.To know the different parts of an animal.To be able to compare different animals.To sort animals into the following groups – amphibians, reptiles, birds, fish and mammals.To know and name some common invertebrates.	Seasonal Changes To know the seasons and the months of the year. To know how the environment and weather changes during Autumn and Winter. To know about the hours of sunlight, darkness and how that changes during Autumn and Winter.	Seasonal Changes To know what the weather is like in Winter. To record the weather over a weekly period in Winter. To measure the weather in a variety of different ways. To find out about animals that migrate and hibernate. <u>Materials</u> Distinguish between an object and the material from which it is made To identify the name of different materials. To describe the simple physical properties of different materials.	Seasonal Changes To identify and record signs of Spring. To make comparisons between the seasons. Materials Compare and group together a variety of everyday materials on the basis of their simple physical properties To predict the most suitable material for an umbrella.	Plants To name and identify common garden plants and trees. To know the name a variety of deciduous and evergreen trees. To identify and name common wild flowers. To identify and describe the basic structure of a variety of common plants. To compare and group plants according to their root, leaves and flower. To know which part of the plant the fruit or vegetable grows.	Animals Including Humans To sort animals by what they eat. Revise the following vocabulary- amphibians, reptiles, birds, fish and mammals, herbivores, carnivores and omnivore and be able to sort animals into the correct groups. Seasonal Changes To know what the weather is like in Summer and about the hours of sunlight. To think about the clothes that we need to wear during Summer time. To think about the activities that we do during Summer and wha the weather is like.
Year 2	Materials and their PropertiesIdentify criteria for sorting, including natural and manmade.Suggest uses for the materials from which objects are madeTo understand that materials and their properties can be changed and the ways in which this can happen.		Animals Including Humans Describe the basic needs of animals, including humans, for survival. Understand that animals, including humans, have offspring that grow into	Living Things and their habitats Explore and compare the differences between things that are living, dead, and things that have never been alive.	Plants Plants in the local school environment and a trip to Bodenham Arboretum to explore further. Parts of the plant recap and introduction to parts of flower. Observe and describe how seeds and bulbs grow i mature plants with seeds/berries/fruits.	

	To understand the importance of a healthy diet. To understand the importance of hygiene.	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	To explain the life cycle of a plant. To explore the interdependence of plants and animals on each other – link with Spring 2 work.
		needs of different kinds	

Throughout KS1

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

	Finstall First Sc	hool Overview	OVERVIEW OF SCIENCE CURRICULUM – KS2		
	Autumn	Spi	ring	Summer	
Year 3	Forces and Magnets.	Rocks & Soils		Light and Shadows (2)	
	Exploring and observing how magnets wor Uses of magnets.	 Compare and group differ Look at how fossils are m 		To recognise that shadows are formed when the light from a light source is blocked by a solid object.	
	Identify magnetic and non-magnetic.	Recognise that soils are n	nade from rocks.	To find patterns in the way that the size of shadows change.	
	 Knowing how forces make objects move. <u>Animals Including Humans - Healthy Eating</u> and <u>Skeletons</u> Animal nutrition and staying healthy. Human nutrition and staying healthy. Food Groups. To identify that humans and some animals have skeletons and muscles for support, protection and movement. To know the different types of skeletons. 	Recognise that they need things and that dark is the Notice that light is reflecte	e absence of light.	 <u>Helping plants to grow well</u> To identify and describe the functions of different parts of flowering plants: roots, stem/ trunk, leaves and flowers. To investigate the way in which water is transported within plants. To explore the requirements of plants for life and growth and how they vary from plant to plant. To explore the part that flowers play in the life cycle 	
Year 4	To identify the different joints and how the work.Solids, Liquids and GasesElectricityClassifying materials by their propertiesHow to construct complete circuitsChanging state- heating and cooling (melting), measuring temperature using Celsius (°c) using a thermometer.How to wire in a range of compone - switches, buzzed bulbs.Evaporation and condensation in the Water Cycle using scientific language, drawings and labelled diagrams.The difference electricity and ho 	a Sound What do I know about Sound? Listening to Sounds around us. Noise pollution The ear- its construction and function Shape of the ear/ for purpose Wavelength an Frequency	Animals Including Humans - Digestive SystemName the parts of the digestive system.Describe the simple functions of the basic parts of the digestive system in humans.Investigation into how the stomach works.Identify the different types of teeth in humans and their simple functions	Habitats (Summer Term) To identify different types of habitat. To group organisms in a variety of ways (Animals and Plants) Conditions in a local habitat and how they might change for the worse or better. Explore human impact on the environment. Use classification keys to group, identify and name living things. Vertebrates/ Invertebrates Food chains	

Viscosity- set up a simple enquiry to find out the viscosity of certain liquids. Gather, record, classify, present data using tables and bar charts.	tion
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Throughout Lower Key Stage 2

Working Scientifically:

- 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.