

Our Science curriculum enables children to learn the important knowledge and concepts to describe and question the materiality of the world. They will learn the important role that science plays in the sustainability of life on earth and have knowledge and skills to question, and investigate scientific theories. We aim that children following this curriculum will be equipped to go onto their secondary education with curiosity, passion and a desire for further discovery and study of the subject.

	Autumn A	Autumn B	Spring A	Spring B	Summer A	Summer B
FS1	<p>All about me</p> <ul style="list-style-type: none"> The season of Autumn, leaves changing colour and falling from trees. Animals begin to prepare for colder weather and hibernation e.g. Squirrels bury nuts in the ground. Temperatures getting colder as winter approaches. 	<p>Journeys</p> <ul style="list-style-type: none"> Plan a journey to the local park, or around the school grounds what would we see? What grows in our school, what grows in the park? People journey around the world to see different places and environments; Ernest Shackleton and his journey to the South Pole. Contrasting environments; journeys to cold places, what would we need to take with us? Book at some recent memorable journeys, e.g., Perseverance landing on Mars. 	<p>Dinosaurs</p> <ul style="list-style-type: none"> We know about dinosaurs because people have found fossils in the ground. Rocks can sometimes contain fossils that palaeontologists can study. The dodo is an animal that is now extinct. It could not fly and so died out because of loss of habitat and introduction of animals to its island home. 	<p>Growing and Changing</p> <ul style="list-style-type: none"> Plants need water and light to grow (this will be built upon throughout the curriculum) Grow 'beanstalks'; plant and observe plants growing e.g. Sunflowers, cress etc. Talk about how the plants change. Investigate materials to create stable structures (wheat, sticks, blocks) Make observations of the world around them, describe things they have seen e.g. Plants, animals, natural objects and man-made objects. Recognise the season of Spring and notice new plants growing. 	<p>Animals and their babies</p> <ul style="list-style-type: none"> Recognise and use the following vocabulary: Farm Animals: cow/calf, pig/piglet, sheep/lamb, chicken/chick, horse/foal Pets: dog/puppy, cat/kitten Wild animals: kangaroo/joeey, lion/cub Life cycles: chicks, caterpillars, tadpoles 	<p>Heroes and Adventurers</p> <ul style="list-style-type: none"> Ice investigation-(link to South Pole - Shackleton). Ice changes from a solid to a liquid when it melts. Boats in water - explore floating and sinking, How many pennies can my boat hold? Contrasting space with our local environment.
FS2	<p>Who am I?</p> <ul style="list-style-type: none"> Families; when I was a baby, when my family members were young. The human body: Facial features, body parts, the senses 	<p>Why is it getting dark?</p> <ul style="list-style-type: none"> Explore the natural world around them Describe what they see, hear, feel whilst outside Animal hibernation, why do some animals hibernate? How do other animals survive winter? Understand some important changes to the world around them including seasons 	<p>How and why do we travel?</p> <ul style="list-style-type: none"> Changing state of matter; frost and ice- looking closely at ice Our planet Earth, land and sea, plants and animals, weather, gravity The moon, the sun, the planets in our solar system, space travel, astronauts. 	<p>How do living things grow and change?</p> <ul style="list-style-type: none"> Seasons of the year: Spring Identify trees and plants growing locally on the school grounds or in local parks. Draw pictures of local plants. Identify where the fruit and vegetables we eat come from. 	<p>Why is the king important?</p> <ul style="list-style-type: none"> Seasons of the Year: Summer. Signs of summer; flowers, warmer days, light evenings, butterflies, bees, birds 	<p>What do we learn from stories?</p> <ul style="list-style-type: none"> Seasons of the Year: Summer. How we stay safe in the sun; sunscreen, hats, sunglasses

Year 1	The Human Body <ul style="list-style-type: none"> Introduction to Our Body and Our Senses Eyes and Sight Ears and Hearing Touch, taste and smell Understanding Sensory Impairment 	<ul style="list-style-type: none"> Seasons of the year; Autumn. Animals and their Needs <ul style="list-style-type: none"> Amazing Animals (Introduction to Animals) Grouping animals: fish, amphibians, reptiles, birds / mammals Grouping animals: carnivores, herbivores and omnivores Animals as pets Describing animals 	Seasons and Weather <ul style="list-style-type: none"> The four seasons Tools to record the weather Using a graph to show information about the weather Clouds and what they tell us: cirrus, cumulus and stratus Weather forecasting 	Taking Care of the Earth <ul style="list-style-type: none"> Taking Care of the Earth Earth's Natural Resources Logging Pollution Recycling 	Plants <ul style="list-style-type: none"> What plants need Parts of plants Seeds Deciduous and evergreen plants Plants we eat 	Materials and Magnets <ul style="list-style-type: none"> Everyday Materials Properties of Materials Uses of Materials Magnets Investigation
	<u>Disciplinary Knowledge W/S PKC</u> <ul style="list-style-type: none"> Identifying and classifying Using their observations and ideas to suggest answers to questions Observing closely Gathering data to help in answering questions Performing simple tests 	<u>Disciplinary Knowledge W/S PKC</u> <ul style="list-style-type: none"> Using their observations and ideas to suggest answers to questions Identifying and classifying 	<u>Disciplinary Knowledge W/S PKC</u> <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 	<u>Disciplinary Knowledge W/S PKC</u> <ul style="list-style-type: none"> Asking simple questions and recognising that they can be answered in different ways Identifying and classifying Using their observations and ideas to suggest answers to questions Gathering and recording data to help in answering questions 	<u>Disciplinary Knowledge W/S PKC</u> <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 	<u>Disciplinary Knowledge W/S PKC</u> <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
	The Human Body <ul style="list-style-type: none"> Animals, including humans, survival & offspring The Skeletal System, The Muscular System and Exercise The Digestive system and Healthy Eating Circulatory system Germs, diseases and preventing illness 	Living Things in their Environments <ul style="list-style-type: none"> Dead or Alive What is a habitat? Rainforest and Desert habitats Meadow habitats Underground habitats 	Electricity <ul style="list-style-type: none"> Introduction to Electricity Safety Exploring Circuits (A) Exploring Circuits (B) Investigating conductive and non-conductive materials 	Plants <ul style="list-style-type: none"> Plants around us Seeds and bulbs Comparative test 1 Comparative Test 2 Food and Farming 	Materials and Matter <ul style="list-style-type: none"> Materials & their uses George de Mestral and Velcro Matter under the microscope Changing Solid Objects Solids and their properties 	Astronomy <ul style="list-style-type: none"> Introduction to Astronomy Model the Solar System Orbit and Rotation The Moon and its Phases Constellations

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Year 3	The Human Body <ul style="list-style-type: none"> The Muscular System The Skeletal System The Nervous System Preparing to Eat The Digestive System 	Cycles in Nature <ul style="list-style-type: none"> The Four Seasons (prior learning) Seasonal Cycles in Plants Life Cycle of a Plant Animal Migration Life Cycle of a Frog 	Light <ul style="list-style-type: none"> Light and Dark Transparent and opaque surfaces Mirrors and reflection Shadows Finding patterns in changing shadows 	Plants <ul style="list-style-type: none"> Botany and Flowering Plants Requirements for life and growth Water transportation in plants Pollination in Flowering Plants Seed Dispersal 	Rocks <ul style="list-style-type: none"> Sorting rocks How Rocks are Formed Permeability Fossils Soil 	Forces and Magnets <ul style="list-style-type: none"> Forces (Gravity) Friction Magnet Magnetic Poles and Fields Investigating the strength of magnets
	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Asking relevant questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Using straightforward scientific evidence to answer questions Identifying differences, similarities or changes related to simple scientific ideas and processes Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions 	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Asking relevant questions and using different types of scientific enquiries to answer them 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 Using straightforward scientific evidence to answer questions or to support their findings 	Disciplinary Knowledge W/S PKC- <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 	Disciplinary Knowledge W/S PKC- <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 	Disciplinary Knowledge W/S PKC- <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 	Disciplinary Knowledge W/S PKC- <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

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Year 4	The Human Body <ul style="list-style-type: none"> Cells and Nutrients Teeth and Senses Digestion A Healthy Diet Vitamins and Minerals 	Classification of Plants and Animals <ul style="list-style-type: none"> Intro. To classification Classes of vertebrates: Fish and Amphibians Classes of vertebrates: Reptiles, Birds and Mammals Classes of invertebrates: Insects, Arachnids & Molluscs Classification of plants 	Ecology <ul style="list-style-type: none"> Living things and Habitats Natural Cycles Web of Living Things Human Threats to the Environment Ecology in our Local Area 	Sound <ul style="list-style-type: none"> What is sound? Speed of sound Qualities of sound - Pitch and Volume Human Voice Ears- how we hear 	States of matter and the Water Cycle <ul style="list-style-type: none"> States of Matter Evaporation Condensation Precipitation The Water Cycle 	Electricity <ul style="list-style-type: none"> Electrical Safety Parts of a circuit Switches Thomas Edison and Lewis Latimer Investigating conductive and non-conductive materials

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Year 5	The Human Body <ul style="list-style-type: none"> Human Growth Stages Adolescence and Puberty Slowing Down Growth in Humans and Animals Preparation for Assessment (research and scientific drawing) 	Materials <ul style="list-style-type: none"> Properties of materials Which material is best? Solubility- which materials are most soluble/what solubility means Separating mixtures- sieving, filtering, evaporating Reversible changes- dissolving, mixing, change of state 	Living Things <ul style="list-style-type: none"> Life cycles of plants and animals in our local area Reproduction in Plants Life cycles of Mammals and Amphibians Life cycles of insects and birds The work of David Attenborough and Jane Goodall 	Forces <ul style="list-style-type: none"> Forces including gravity Air resistance, water resistance and friction Guided investigation: Paper Drop Guided investigation: Paper Drop Pulleys, gears and levers 	Astronomy <ul style="list-style-type: none"> The Big Bang and the expanding universe Gravity Our Solar System The Moon Our Galactic neighbourhood 	Meteorology <ul style="list-style-type: none"> Meteorology and the Atmosphere The Ozone Layer Air Movement Cold and Warm Fronts Thunder and Lightning
	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Reporting 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 Identifying scientific evidence that has been used to support or refute ideas or arguments Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Identifying scientific evidence that has been used to support or refute ideas or arguments Reporting 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 Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs 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 Using test results to make predictions to set up further comparative and fair tests 	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Reporting 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 Identifying scientific evidence that has been used to support or refute ideas or arguments 	Disciplinary Knowledge W/S PKC- <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 a 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 	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Identifying scientific evidence that has been used to support or refute ideas or arguments 	Disciplinary Knowledge W/S PKC- <ul style="list-style-type: none"> Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs Reporting 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 Identifying scientific evidence that has been used to support or refute ideas or arguments

Year 6	The Human Body <ul style="list-style-type: none"> The Heart: Circulation of the Blood Blood Vessels and Transport Components of Human Blood Blood Pressure and Heart Rate Heart Rate - an Investigation 	Classification of Living Things <ul style="list-style-type: none"> Classifying organisms Cells: Plant and Animal cells Taxonomy Vertebrates Invertebrates 	Electricity <ul style="list-style-type: none"> Simple Series Circuits Parallel Circuits Switches Planning an investigation Investigation 	Light <ul style="list-style-type: none"> How light travels How we see Shadows and their shapes The Colour of Light Making a periscope 	Reproduction <ul style="list-style-type: none"> Asexual reproduction Sexual reproduction in non-flowering plants Sexual reproduction in flowering plants Reproduction in animals Growth stages 	Evolution <ul style="list-style-type: none"> Fossils and Evolution Inheritance Adaptation Charles Darwin Alfred Wallace
	Disciplinary Knowledge W/S PNC- <ul style="list-style-type: none"> Recording data and results of increasing complexity using scientific diagrams and labels, scatter graphs, bar and line graphs Identifying scientific evidence that has been used to support or refute ideas or arguments Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Reporting 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 	Disciplinary Knowledge W/S PNC- <ul style="list-style-type: none"> Identifying scientific evidence that has been used to support or refute ideas or arguments Reporting 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 Recording data and results of increasing complexity using scientific diagrams and labels, scatter graphs, bar and line graphs 	Disciplinary Knowledge W/S PNC- <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, 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 a 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 	Disciplinary Knowledge W/S PNC- <ul style="list-style-type: none"> Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary 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 a 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 	Disciplinary Knowledge W/S PNC- <ul style="list-style-type: none"> Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Recording data and results of increasing complexity using scientific diagrams and labels, scatter graphs, bar and line graphs Reporting 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 Identifying scientific evidence that has been used to support or refute ideas or arguments 	Disciplinary Knowledge W/S PNC- <ul style="list-style-type: none"> Reporting 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 Identifying scientific evidence that has been used to support or refute ideas or arguments

'The important thing is to not stop questioning' Albert Einstein

Unity through Diversity