



WARREN PARK PRIMARY SCHOOL  
SCIENCE - A Progressive Learning Journey



TOPIC	RECEPTION - FUNDAMENTAL CONCEPTS
UNDERSTANDING THE WORLD (EXPECTED)	<p><i>Know similarities and differences in relation to objects, materials and places.</i></p> <p><i>Can discuss their own environment and how environments vary.</i></p> <p><i>Observe plants and animals and discuss changes, similarities and differences.</i></p>
UNDERSTANDING THE WORLD (EXCEEDING)	<p><i>Know that the environment and living things are influenced by human activity.</i></p> <p><i>Describe some actions of people that influence the environment they live in(positive and negative).</i></p> <p><i>Know some properties of basic materials and suggest possible uses.</i></p>

**RECEPTION AGE ACCOMPLISHED**



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TOPIC	YEAR ONE - SUBSTANTIVE AND DISCIPLINARY KNOWLEDGE
<b>ANIMALS AND HUMANS</b>	<p>Identify and Name a variety of common fish and amphibians.</p> <p>Identify and Name a variety of common reptiles, mammals and birds.</p> <p>Understand the terms: Carnivore, Herbivore and Omnivore - Identify and Name a variety of animals that are carnivores, herbivores and omnivores - Identify shared characteristics of carnivores, herbivores and omnivores.</p> <p>Describe the structure of a variety of animals (fish, reptiles, birds, amphibians, mammals) - Compare the structure of a variety of animals (fish, reptiles, birds, amphibians, mammals)</p> <p>Identify, Name and Label the basic parts of the human body.</p> <p>Understand which body parts are associated with which of the senses - Understand how senses leads to responses - Give examples of how we respond to our senses.</p> <hr/> <p>asking simple questions and recognising that they can be answered in different ways</p> <p>observing closely, using simple equipment</p> <p>identifying and classifying</p> <p>using their observations and ideas to suggest answers to questions</p> <p>gathering and recording data to help in answering questions.</p>
<b>PLANTS</b>	<p>Identify (recognise) a variety of common, garden plants - Name a variety of common garden plants.</p> <p>Identify (recognise) a variety of common, wild plants - Name a variety of common, wild plants.</p> <p>Understand the terms deciduous and evergreen - Identify (recognise) common, deciduous and evergreen trees - Name common, deciduous and evergreen trees.</p> <p>Identify the basic structure of common flowering plants and trees (leaves, flowers, petals, stem, root, trunk, seed, branches, fruit)</p> <p>Describe the basic structure of common flowering plants and trees (Roots are at the bottom. Roots feed the plant)</p> <hr/> <p>asking simple questions and recognising that they can be answered in different ways</p> <p>observing closely, using simple equipment</p> <p>identifying and classifying</p> <p>using their observations and ideas to suggest answers to questions</p>



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<b>SEASON CHANGES</b>	<p><i>Observe changes across all four seasons.</i></p> <p><i>Observe and describe weather associated with the four seasons.</i></p> <p><i>Describe how day length varies (Summer = Longer and Winter = Shorter)</i></p>
<b>EVERYDAY MATERIALS</b>	<p><i>Distinguish between an object and the material from which it is made (bench/wood).</i></p> <p><i>Identify and Name a variety of everyday materials (wood, plastic, glass, metal, rock, water)</i></p> <p><i>Describe the simple physical properties of everyday materials (wood, plastic, glass, metal, rock, water) - Establish materials that may be good for certain jobs based on their properties.</i></p> <p><i>Compare and group materials on the basis of their properties.</i></p> <p><i>asking simple questions and recognising that they can be answered in different ways</i></p> <p><i>observing closely, using simple equipment</i></p> <p><i>performing simple tests</i></p> <p><i>identifying and classifying</i></p> <p><i>using their observations and ideas to suggest answers to questions</i></p> <p><i>gathering and recording data to help in answering questions.</i></p>
<b>YEAR ONE AGE ACCOMPLISHED</b>	



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TOPIC	YEAR TWO - SUBSTANTIVE AND DISCIPLINARY KNOWLEDGE
ANIMALS AND HUMANS	<p>Be aware that animals, including humans, have offspring that grow into adults - Understand that all living things will eventually die.</p> <p>Explore and describe the basic needs of animals, including humans, for survival (water, warmth, food (light) - Understand what sources there are for these necessities.</p> <p>Describe the importance for humans of exercise, eating the right amounts of different foods, and hygiene (increases survival chances).</p>
	<p>observing closely, using simple equipment</p> <p>performing simple tests</p> <p>using their observations and ideas to suggest answers to questions</p> <p>gathering and recording data to help in answering questions.</p>
PLANTS	<p>Observe and describe how seeds and bulbs grow into mature plants.</p> <p>Explore how plants need water, light and a suitable temperature to grow and stay health - Describe how plants need water, light and a suitable temperature to grow and stay healthy.</p> <p>Understand that environmental change can affect the living things that live there.</p>
	<p>asking simple questions and recognising that they can be answered in different ways</p> <p>observing closely, using simple equipment</p> <p>identifying and classifying</p> <p>using their observations and ideas to suggest answers to questions</p>
LIVING THINGS + HABITATS	<p>Understand that things are either living, dead or have never been alive - Explore and compare the difference between things that are living, dead, and have never been alive.</p> <p>Understand that different animals live in different places - Describe how different habitats provide the basic needs for different kinds of animals.</p> <p>Understand and give examples of the fact that animals and their habitats depend on each other - Recognise that living things are adapted to survive.</p> <p>Identify and name a variety of plants and animals in their habitats, including micro-habitats.</p> <p>Describe how animals obtain their food from plants and other animals using a simple food chain - Identify and name different food sources.</p>



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	<p><i>asking simple questions and recognising that they can be answered in different ways</i></p> <p><i>observing closely, using simple equipment</i></p> <p><i>using their observations and ideas to suggest answers to questions</i></p> <p><i>gathering and recording data to help in answering questions.</i></p>
<b>EVERYDAY MATERIALS</b>	<p><i>Identify and compare a variety of everyday materials for practical uses (wood, plastic, cardboard, metal, brick, glass, paper).</i></p> <p><i>Explore how the shapes of some solid objects can be changed by squashing, stretching, twisting and bending.</i></p>
	<p><i>asking simple questions and recognising that they can be answered in different ways</i></p> <p><i>observing closely, using simple equipment</i></p> <p><i>performing simple tests</i></p> <p><i>identifying and classifying</i></p> <p><i>using their observations and ideas to suggest answers to questions</i></p> <p><i>gathering and recording data to help in answering questions.</i></p>
<b>YEAR TWO AGE ACCOMPLISHED</b>	



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TOPIC	YEAR THREE PROGRESSION - SUBSTANTIVE AND DISCIPLINARY KNOWLEDGE
ANIMALS AND HUMANS	<p>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</p> <p>identify that humans and some other animals have skeletons and muscles for support, protection and movement.</p>
	<p>asking relevant questions and using different types of scientific enquiries to answer them</p> <p>setting up simple practical enquiries, comparative and fair tests</p> <p>using straightforward scientific evidence to answer questions or to support their findings.</p>
PLANTS	<p>Identify and describe the functions of different parts of flowering plants (roots, stem/trunk, leaves, flowers) - Investigate the way in which water is transported within plants.</p> <p>Explore the requirements of plants for life and growth (air, light, water, nutrients and room to grow) - Describe how the plants obtains these necessities and the adaptations they go through.</p> <p>Explore the role of the flower in the life cycle of flowering plants - Know that plants normally grow from seeds or bulbs - Relates seeds with reproduction.</p>
	<p>asking relevant questions and using different types of scientific enquiries to answer them</p> <p>setting up simple practical enquiries, and discuss fair tests</p> <p>making systematic and careful observations</p> <p>gathering, recording, classifying and presenting data</p> <p>identifying differences, similarities or changes related to simple scientific ideas and processes</p>
FORCES + MAGNETS	<p>Compare and explore how things move on different surfaces - Identify the effects that pushing and pulling have on a moving object.</p> <p>Notice that some forces require contact between objects but magnetic forces can work at a distance.</p> <p>Observe how magnets attract and repel each other and attract some materials but not others - Describe magnets as having two poles - Identify factors which effect the strength of a magnetic force.</p> <p>Compare and group together everyday materials on the basis of whether or not they are attracted to a magnet and identify some magnetic materials.</p> <p>Predict whether magnets will attract or repel depending on which way they are facing.</p>



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	<p><i>setting up simple practical enquiries, comparative and fair tests</i></p> <p><i>making systematic and careful observations and, where appropriate, taking accurate measurements.</i></p> <p><i>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</i></p> <p><i>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</i></p> <p><i>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</i></p> <p><i>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</i></p>
<b>ROCKS</b>	<p><i>Understand that there are different types of rock - Compare and group different rocks on the basis of their appearance and physical properties.</i></p> <p><i>Describe, in simple terms, how fossils are formed when things that have lived are trapped within rock - Understand that fossils provide evidence of living things changing over time.</i></p> <p><i>Recognise that soils are made from rocks and organic matter.</i></p> <p><i>asking relevant questions and using different types of scientific enquiries to answer them</i></p> <p><i>setting up simple practical enquiries, comparative and fair tests</i></p> <p><i>identifying differences, similarities or changes related to simple scientific ideas and processes</i></p> <p><i>using straightforward scientific evidence to answer questions or to support their findings.</i></p>
<b>LIGHT</b>	<p><i>Recognise that they need light to be able to see and that darkness is the absence of light - Notice that light is reflected from surfaces and suggest materials that are excellent reflectors - Know that light travels in straight lines, from the object to the eye.</i></p> <p><i>Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.</i></p> <p><i>Recognise that shadows are formed when the light from a source is blocked by an opaque object - Find and explore patterns in the way that the size of shadows change.</i></p> <p><i>setting up simple practical enquiries, comparative and fair tests</i></p> <p><i>making systematic and careful observations and, where appropriate, taking accurate measurements.</i></p> <p><i>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</i></p> <p><i>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</i></p> <p><i>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</i></p> <p><i>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</i></p>
<b>YEAR THREE AGE ACCOMPLISHED</b>	



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TOPIC	YEAR FOUR PROGRESSION - SUBSTANTIVE AND DISCIPLINARY KNOWLEDGE
<b>ANIMALS + HUMANS</b>	<p><i>Describe the simple functions of the basic parts of a human digestive system.</i></p> <p><i>Identify the different types of teeth in humans and their functions - Compare the similarities and differences between human and animal teeth.</i></p> <p><i>Understand the terms: predators, prey, producers and consumers - Construct and Interpret a variety of food chains, identifying predators, prey, producers and consumers - Understand that a food chain is a transference of energy - Recognise that different food chains occur in different habitats.</i></p> <hr/> <p><i>asking relevant questions and using different types of scientific enquiries to answer them</i></p> <p><i>making systematic and careful observations</i></p> <p><i>reporting on findings from enquiries, including oral and written explanations and displays</i></p> <p><i>identifying differences, similarities or changes related to simple scientific ideas and processes</i></p> <p><i>using straightforward scientific evidence to answer questions or to support their findings.</i></p>
<b>LIVING THINGS + HABITATS</b>	<p><i>Recognise that living things can be grouped in a number of ways, using their characteristics.</i></p> <p><i>Explore and use classification keys to help group, identify and name a variety of living things in the local and wider environment.</i></p> <p><i>Recognise that environments can change naturally or via human impact and the dangers this can pose - Observe how change affects different living things in different ways.</i></p> <hr/> <p><i>asking relevant questions and using different types of scientific enquiries to answer them</i></p> <p><i>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</i></p> <p><i>using straightforward scientific evidence to answer questions or to support their findings.</i></p>
<b>ELECTRICITY</b>	<p><i>Identify common appliances that run on electricity (Mains and Battery) - Understand the terms CONDUCTOR and INSULATOR and apply to everyday appliances.</i></p> <p><i>Recognise some common conductors and insulators of electricity and associate metals with being good conductors.</i></p> <p><i>Construct a simple series circuit, identifying and naming its basic parts - Identify whether a bulb will light in a simple circuit based on whether it is part of a complete loop with a battery/cell.</i></p> <p><i>Recognise that a switch opens and closes a circuit and associate this with whether or not a bulb will light.</i></p> <hr/> <p><i>asking relevant questions and using different types of scientific enquiries to answer them</i></p> <p><i>setting up simple practical enquiries, comparative and fair tests</i></p>



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	<p>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment</p> <p>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p> <p>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p> <p>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p> <p>identifying differences, similarities or changes related to simple scientific ideas and processes</p>
<b>STATES OF MATTER</b>	<p>Compare and group materials according to whether or not they are solids, liquids or gases - Identify the properties of solids, liquids and gases.</p> <p>Observe that some materials change state when heated or cooled - Measure/record the temperature that this change occurs - Begin to question if the change can be reversed - Understand that the temperature a substance changes state at is always the same.</p> <p>Understand and give examples of the terms: EVAPORATION and CONDENSATION - Identify the part played by evaporation and condensation in the water cycle.</p> <p>Begin to associate the rate of evaporation with temperature - Explore and experiment evaporation using changing temperatures.</p> <p>setting up simple practical enquiries, comparative and fair tests</p>
	<p>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment</p> <p>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p> <p>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p> <p>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p>
<b>SOUND</b>	<p>Identify the difference between a SOURCE and the SOUND - Identify how sounds are made, associating them with something vibrating - Recognise that vibrations travel through a medium to the ear.</p> <p>Find patterns between the pitch of a sound and the features of the object that produced it - Find patterns between the volume of a sound and the strength of the vibrations that produced it.</p> <p>Recognise that sounds get fainter as the distance from the sound source increases - Explore other ways to change a sound's volume</p>
	<p>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment</p> <p>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p> <p>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p> <p>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p>
<b>YEAR FOUR AGE ACCOMPLISHED</b>	



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TOPIC	YEAR FIVE PROGRESSION - SUBSTANTIVE & DISCIPLINARY KNOWLEDGE
<b>ANIMALS + HUMANS</b>	<p>Recognise and discuss that humans change throughout their life (birth, puberty, adulthood) - Describe the changes as humans develop to old age.</p> <p>Understand that different animals evolve at different rates and live to different ages.</p>
	<p>identifying scientific evidence that has been used to support or refute ideas or arguments.</p>
<b>LIVING THINGS + HABITATS</b>	<p>Understand the terms: mammal, amphibian, insect, bird and reptile - Identify animals that fall into the categories based on their appearance and make-up.</p> <p>Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p> <p>Describe the process of reproduction in plants &amp; animals - Compare the similarities &amp; differences in reproduction between a human and a selected animal.</p>
	<p>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</p> <p>identifying scientific evidence that has been used to support or refute ideas or arguments.</p>
<b>FORCES</b>	<p>Explain that unsupported objects fall toward Earth because of gravity acting between the two.</p> <p>Understand the terms: air resistance, friction and water resistance - Identify the effects of air resistance, friction and water resistance that act between objects or moving surfaces.</p> <p>Recognise that mechanisms including levers, pulleys and gears allow a smaller force to have greater effect.</p>
	<p>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <p>using test results to make predictions to set up further comparative and fair tests</p> <p>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</p>



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<b>PROPERTIES + MATERIAL CHANGES</b>	<p>Understand and give examples of: TRANSPARENT, OPAQUE, TRANSLUCENT, SOLUABLE and INSOLUABLE - Compare and group materials based on properties (hardness, solubility, transparency, conductivity both thermal and electrical, and their response to magnetism).</p> <p>Know the difference between: MIXTURE and SOLUTION - Know that some materials will dissolve in liquid to form a solution - Describe how to recover a substance from a solution.</p> <p>Use knowledge of solids, liquids and gases to decide how mixtures may be separated, including sieving, filtering and evaporating.</p> <p>Give reasons, after testing, for the uses of everyday materials (metals, woods and plastic).</p> <p>Demonstrate that dissolving, mixing and changes of state can be reversible changes - Explain how some changes create a new material and these changes are usually not reversible. Include changes associated with burning.</p>
	<p>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <p>using test results to make predictions to set up further comparative and fair tests</p> <p>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</p>
<b>EARTH AND SPACE</b>	<p>Know that Earth is one of a number of planets in OUR solar system - Describe movement of the Earth and other planets in relation to the Sun.</p> <p>Understand that larger objects have a greater gravitational pull - Describe the movement of the Moon in relation to the Earth.</p> <p>Use the idea of the Earth's rotation to explain day and night and the apparent movement across the sky.</p>
	<p>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>using test results to make predictions to set up further comparative and fair tests</p> <p>identifying scientific evidence that has been used to support or refute ideas or arguments.</p>
YEAR FIVE AGE ACCOMPLISHED	



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TOPIC	YEAR SIX PROGRESSION - SUBSTANTIVE & DISCIPLINARY KNOWLEDGE
<b>ANIMALS AND HUMANS</b>	<p>Identify and name the main parts of the human circulatory system - Know that the heart pumps blood through vessels to the muscles; the muscles take oxygen and nutrients from the blood, and oxygen is taken into the blood via the lungs.</p> <p>Recognise the impact of diets, drugs, exercise and lifestyle on their bodies.</p> <p>Describe the way in which nutrients and water are transported in animals including humans (absorbed into the blood stream by the vessels).</p> <p>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <p>using test results to make predictions to set up further comparative and fair tests</p>
<b>LIVING THINGS + HABITATS</b>	<p>Describe how living things are classified into broad groups based on observable characteristics and based on similarities and differences, including micro-organisms, plants and animals.</p> <p>Classify animals using characteristics and keys - Give reasons for classifying plants and animals based on specific characteristics.</p> <p>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</p> <p>Identifying scientific evidence that has been used to support or refute ideas or arguments.</p>
<b>ELECTRICITY</b>	<p>Understand that CURRENT is the amount of electricity in a circuit - Understand that electricity is measured in volts - Associate brightness and volume with the number or voltage of cells in the circuit.</p> <p>Explore, compare and give reasons for the variations in the performance of components (brightness of bulbs, loudness of buzzers, switch position)</p> <p>Use recognised symbols when representing a simple circuit in a diagram.</p> <p>Recognise and give examples of the energy output created by electricity (KINETIC, SOUND, LIGHT, HEAT) - Understand that these show there is electricity present.</p> <p>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <p>using test results to make predictions to set up further comparative and fair tests</p> <p>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</p>



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<b>EVOLUTION AND INHERITANCE</b>	<i>Recognise and give examples that living things have changed over time - Know and explore how fossils provide evidence that living things inhabited Earth many years ago.</i>
	<i>Recognise that living things produce offspring of the same kind but they can vary and are not identical to their parents.</i>
	<i>Identify how different plants and animals are adapted to suit their environment in different ways - Recognise that adaptation may lead to evolution and provide examples.</i>
	<i>Recognise that competition exists for resources and mates - Understand that the living things that are best suited/adapted are most likely to reproduce.</i>
<b>LIGHT</b>	<i>planning different types of scientific enquiries to answer questions</i>
	<i>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</i>
	<i>recording data and results of using scientific, classification keys, tables, scatter graphs, bar and line graphs</i>
	<i>identifying scientific evidence that has been used to support or refute ideas or arguments.</i>
	<i>Recognise that light appears to travel in straight lines - Use the idea that light travels in straight lines to explain how objects are seen by reflecting light into our eye.</i>
	<i>Understand that we see things because light travels from a light source to eyes or from a light source to an object and then into our eye - Describe the difference between a smooth material and a rough material regarding its light reflection.</i>
<b>YEAR SIX AGE ACCOMPLISHED</b>	<i>Using the idea of light travelling in straight lines, understand why shadows have the same shape as the object that cast them.</i>
	<i>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</i>
	<i>Identifying scientific evidence that has been used to support or refute ideas or arguments.</i>
	<i>Using test results to make predictions to set up further comparative and fair tests</i>