


Reception Long Term Plan

	<b>All About Me</b>	<b>Under the Sea/Arctic</b>	<b>Transport Forces</b>	<b>Space</b>	<b>Animals and minibeasts</b>	<b>Traditional Tales (Materials and how the change)</b>
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Vocabulary	<p>Model and encourage children to use vocabulary such as:                      hair (black, brown, dark, light, blonde, ginger, grey, white, long, short, straight, curly), eyes (blue, brown, green, grey), skin (black, brown, white), big/tall, small/short, bigger/smaller, baby, toddler, child, adult, old person, old, young, brother, sister, mother, father, aunt, uncle, grandmother, grandfather, cousin, friend, family, boy, girl, man, woman                      Expose children to supplementary vocabulary such as:                      bald, elderly, wrinkles, male, female, freckles</p>	<p>Model and encourage children to use vocabulary such as:                      names of animals, live, on land, in water, jungle, desert, North Pole, South Pole, sea, hot, cold, wet, dry, snow, ice                      Expose children to supplementary vocabulary such as:                      environment, polar regions, ocean, camouflage</p>	<p>Model and encourage children to use vocabulary such as:                      float, sink, up, down, top, bottom, surface, move, roll, drop, fly, turn, spin, fall, fast, slow, faster, slower, fastest, slowest, further, furthest, wind, air, water, blow, bounce                      Expose children to supplementary vocabulary such as:                      force, rotate, solid, liquid, gravity</p>	<p>Model and encourage children to use vocabulary such as:                      Sun, Moon, Earth, star, planet, sky, day, night, space, round, bounce, float                      Expose children to supplementary vocabulary such as:                      sunrise, sunset, astronaut, astronomer, constellation, orbit, nocturnal, slow-motion, magnify</p>	<p>Model and encourage children to use vocabulary such as:                      plant, tree, bush, flower, vegetable, herb, weed, animal, names of plants and animals they see, name of a contrasting environment e.g. beach, forest                      Expose children to supplementary vocabulary such as:                      environment</p>	<p>Model and encourage children to use vocabulary such as:                      ice, water, frozen, icicle, snow, melt, wet, cold, slippery, smooth, big, bigger, biggest, smaller, smaller, smallest, hard, soft, bendy, rigid, wood, plastic, paper, card, metal, strong, weak, hot, apply heat, waterproof, soggy, not waterproof, best, change, change back                      Expose children to supplementary vocabulary such as:                      solid, liquid, gas, most suited</p>

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<b>Previous Knowledge</b>	<ul style="list-style-type: none"> <li>Use all their senses in hands-on exploration of natural materials. (Nursery)</li> <li>Begin to make sense of their own life-story and family's history. (Nursery)</li> <li>Understand the key features of the life cycle of a plant and an animal. (Nursery)</li> <li>Begin to understand the need to respect and care for the natural environment and all living things. (Nursery)</li> </ul>	<ul style="list-style-type: none"> <li>Understand the key features of the life cycle of a plant and an animal. (Nursery)</li> <li>Begin to understand the need to respect and care for the natural environment and all living things. (Nursery)</li> </ul>	<ul style="list-style-type: none"> <li>Explore how things work. (Nursery)</li> <li>Explore and talk about different forces they can feel. (Nursery)</li> <li>Talk about the differences between materials and changes they notice. (Nursery)</li> </ul>	<ul style="list-style-type: none"> <li>Explore and respond to different natural phenomena in their setting and on trips. (Birth to three)</li> </ul>	<ul style="list-style-type: none"> <li>Use all their senses in hands-on exploration of natural materials.</li> <li>Explore collections of materials with similar and/or different properties.</li> <li>Begin to understand the need to respect and care for the natural environment and all living things.</li> </ul>	<ul style="list-style-type: none"> <li>Use all their senses in hands-on exploration of natural materials. (Nursery)</li> <li>Explore collections of materials with similar and/or different properties. (Nursery)</li> <li>Talk about the differences between materials and changes they notice. (Nursery)</li> </ul>
<b>Future Learning</b>	<ul style="list-style-type: none"> <li>Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 – Animals, including humans)</li> </ul>	<ul style="list-style-type: none"> <li>Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. (Y1 – Animals, including humans)</li> <li>Identify and name a variety of common animals that are carnivores, herbivores and omnivores. (Y1 – Animals, including humans)</li> <li>Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). (Y1 – Animals, including humans)</li> </ul>	<ul style="list-style-type: none"> <li>Compare how things move on different surfaces. (Y3 – Forces and magnets) Observe how magnets attract or repel each other and attract some materials and not others. (Y3 – Forces and magnets)</li> <li>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. (Y3 – Forces and magnets)</li> <li>Describe magnets as having two poles. (Y3 – Forces and magnets)</li> <li>Predict whether two magnets will attract or repel each other, depending on which</li> </ul>	<ul style="list-style-type: none"> <li>Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. (Y5 – Earth and space)</li> <li>Describe the movement of the Moon relative to the Earth. (Y5 – Earth and space)</li> <li>Describe the Sun, Earth and Moon as approximately spherical bodies. (Y5 – Earth and space)</li> <li>Use the idea of the Earth's rotation to explain day and night and the apparent movement of the Sun across the sky. (Y5 – Earth and space)</li> </ul>	<ul style="list-style-type: none"> <li>Explore and compare the differences between things that are living, dead, and things that have never been alive. (Y2 – Living things in their habitat)</li> <li>Identify and animals in their habitats, including microhabitats. (Y2 – Living things in their habitat)</li> </ul>	<ul style="list-style-type: none"> <li>Distinguish between an object and the material from which it is made. (Y1 – Everyday materials)</li> <li>Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. (Y1 – Everyday materials)</li> <li>Describe the simple physical properties of a variety of everyday materials. (Y1 – Everyday materials)</li> <li>Compare and group together a variety of everyday materials on the basis of their simple physical properties. (Y1 – Everyday materials)</li> </ul>

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			<p>poles are facing. (Y3 – Forces and magnets)</p> <ul style="list-style-type: none"> <li>Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object. (Y5 – Forces)</li> <li>Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. (Y5 – Forces)</li> </ul>			
<b>Key Objectives</b>	<ul style="list-style-type: none"> <li>Talk about members of their immediate family and community.</li> <li>Name and describe people who are familiar to them.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise some environments that are different to the one in which they live</li> </ul>	<ul style="list-style-type: none"> <li>Explore the natural world around them.</li> <li>Describe what they see, hear and feel whilst outside.</li> </ul>	<ul style="list-style-type: none"> <li>Explore the natural world around them</li> <li>Describe what they see, hear and feel whilst outside.</li> </ul>	<ul style="list-style-type: none"> <li>Draw information from a simple map.</li> <li>Explore the natural world around them.</li> <li>Describe what they see, hear and feel whilst outside.</li> <li>Recognise some environments that are different to the one in which they live.</li> </ul>	<ul style="list-style-type: none"> <li>Explore the natural world around them.</li> <li>Describe what they see, hear and feel whilst outside.</li> </ul>
<b>Misconceptions</b>	<p>Some children may think:</p> <ul style="list-style-type: none"> <li>sons look like their fathers and daughters look like</li> </ul>	<p>Some children may think:</p> <ul style="list-style-type: none"> <li>animals are furry and have four legs</li> <li>a bee is not an animal because it is an insect</li> </ul>	<p>Some children may think:</p> <ul style="list-style-type: none"> <li>all light objects float and all heavy objects sink</li> </ul> <p>objects made of the same material will always float or sink.</p>	<p>Some children may think:</p> <ul style="list-style-type: none"> <li>the Earth is flat</li> <li>the Moon and Sun are discs</li> </ul>		<p>Some children may think:</p> <ul style="list-style-type: none"> <li>material only means fabric</li> <li>all plastic/wood etc. is the same.</li> </ul>

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	<p>their mothers.</p>	<ul style="list-style-type: none"> <li>animals adapt to their surroundings, e.g. a brown bear turns white and becomes a polar bear</li> <li>animals living in the soil breathe by coming to the surface</li> </ul> <p>dragons and other mythical creatures are real animals</p>		<ul style="list-style-type: none"> <li>stars are a pointed 'star' shape</li> <li>the Moon appears only at night</li> <li>at night, the Sun is turned off</li> <li>at night, the Sun goes behind the clouds.</li> </ul>		
<b>Key knowledge to be assessed</b>	<ul style="list-style-type: none"> <li>Can describe themselves, family, friends and community</li> <li>Can create pictures of themselves, family, friends and community and identify their distinguishing features.</li> <li>Can talk about what they see when using a mirror.</li> <li>Can compare hand, foot and fingerprints and talk about how they are different.</li> <li>Can talk about how they look after themselves and how other people look after them.</li> </ul>	<ul style="list-style-type: none"> <li>Children ask questions, make observations and talk about what they have found out about:</li> <li>Children can name and describe animals that live in different habitats. Can describe different habitats.</li> </ul>	<ul style="list-style-type: none"> <li>Can talk about how they changed objects to make them float or sink.</li> <li>Can talk about how they changed how cars move down ramps or gutters.</li> <li>Can talk about how they changed how wheels turn when sand or water is poured through them.</li> <li>Can talk about how they changed how balls bounce.</li> <li>Can compare how different boats and aeroplanes performed.</li> <li>Can describe how objects fall with and without a parachute.</li> <li>Can describe how a marble moves through different liquids.</li> </ul>	<ul style="list-style-type: none"> <li>Can identify the Sun, Moon and stars and talk about how they are different from Earth.</li> <li>Can identify differences between day and night.</li> <li>Can talk about animals that are active at night.</li> <li>Can talk about some differences between being on Earth and travelling in space.</li> </ul>	<ul style="list-style-type: none"> <li>Can name and describe plants and animals in the school grounds and their environment.</li> <li>Children do not damage the living things they encounter in the natural environment.</li> </ul>	<ul style="list-style-type: none"> <li>Can name the material they are using and why.</li> <li>Can talk about multiple properties of the material and why it is suited for its purpose.</li> <li>Can observe changes in their natural world and say why it is different now or will change in the future.</li> <li>Can compare and describe how materials change over time and in different conditions.</li> </ul>

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<p><b>What adults can do</b></p>	<ul style="list-style-type: none"> <li>• Encourage children to look at photographs of different people and to describe them.</li> <li>• Encourage children to describe their friends and family using photographs to help them.</li> <li>• Encourage children to talk about how their friends and family are the same and different.</li> <li>• Encourage children to compare themselves to characters in books</li> <li>• Encourage children to compare their hand, foot and fingerprints with their friends.</li> <li>• Encourage children to talk about the people who look after them, both within their family and the wider community e.g. teachers, doctors, dentists etc.</li> <li>• Encourage children to ask a dentist, nurse, meal supervisor/school cook, road crossing supervisor etc. questions.</li> </ul>	<ul style="list-style-type: none"> <li>• Encourage children to name and describe animals that live in different habitats while reading books, watching videos, looking at pictures or playing matching games.</li> <li>• Encourage children to ask questions about different animals and the habitats they live in.</li> <li>• Encourage children to describe habitats.</li> <li>• Encourage children to talk about how animals are cared for when they live outside their natural habitat.</li> <li>• Encourage children to move like different animals.</li> </ul>	<ul style="list-style-type: none"> <li>• Encourage children to talk about how they changed objects to make them float or sink.             <ul style="list-style-type: none"> <li>• Encourage children to count and record how small objects different 'boats' can hold before they sink.</li> <li>• Encourage children to talk about how they changed how the cars rolled down ramps/gutters.</li> <li>• Encourage children to talk about what happened when they poured sand/water through wheels and down gutters and how they changed this.</li> <li>• Encourage children to compare how objects fall, including with or without parachutes.</li> <li>• Encourage children to explore and talk about how they changed how different balls bounced.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Encourage children to safely observe changes in the sky at different times of the day.             <ul style="list-style-type: none"> <li>• Support children to link changes in the sky to other observations e.g., changes in temperature and brightness.</li> <li>• Encourage children to observe the evening/night sky with their family.</li> <li>• Model asking questions about space and space travel.</li> <li>• Encourage children to ask questions about space and space travel.</li> <li>• Encourage children to move as if they were in space or on the Moon.</li> <li>• Encourage children to use observations from books and video clips when painting their model planets.</li> <li>• Encourage children to talk about how binoculars or a telescope make distant objects appear larger and closer.</li> <li>• Encourage children to sort animals by when they are active.</li> <li>• Support children to decide criteria for the 'best' rocket.</li> <li>• Support children to describe the</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Ensure children are careful when observing minibeasts and return them to where they found them.</li> <li>• Encourage children to talk about the minibeasts they find.</li> <li>• Support children to name the minibeasts they find.</li> <li>•</li> </ul>	<ul style="list-style-type: none"> <li>• Encourage children to talk about the natural materials they explore, using their senses.</li> <li>• Encourage children to talk about the materials they are using when making pictures.</li> <li>• Encourage children to choose from a range of materials, including natural materials, when making models and identify a key property that was required.</li> <li>• Encourage children to reuse materials and talk about what can be recycled to care for the natural world.</li> <li>• Support children to list the properties the material has.</li> <li>• Encourage children to test that their model is fit for purpose and that the materials are suitable.</li> <li>• Encourage children to compare and describe how materials change over time and in different conditions.</li> </ul>
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			<ul style="list-style-type: none"><li>• Encourage children to make different aeroplanes and compare how far they fly by marking where they land.</li><li>• Encourage children to describe how sand or water moves down pipes or gutters, or marbles travel down a marble run, and how they changed this.</li><li>• Encourage children to notice and talk about the objects in the playground that are moved by the wind.</li><li>• Encourage children to explore and talk about what they observe when turning bottles filled with different liquids and a marble upside down.</li><li>• Encourage children to ask questions about forces, such as "What happens if I ..."</li></ul>	movements of astronauts.		
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<b>Enrichment/Role Play</b>	<p>Opportunities in the role-play corner to show how people take care of them</p> <ul style="list-style-type: none"> <li>• Doctor</li> <li>• Nurse</li> <li>• Dentist</li> <li>• Optician</li> </ul> <ul style="list-style-type: none"> <li>• <i>Visit from someone who helps us</i></li> </ul>	<p>Opportunities in the role play area</p> <ul style="list-style-type: none"> <li>• Zookeeper</li> <li>• Safari centre</li> <li>• Aquarium</li> <li>• Explorer/Naturalist</li> </ul>	<p>Opportunities in the role play area</p> <ul style="list-style-type: none"> <li>• Boat builder</li> <li>• Aircraft engineer</li> <li>• Rocket designer</li> <li>• Engineer</li> </ul>	<p>Opportunities in the role-play corner to learn about space</p> <ul style="list-style-type: none"> <li>• Astronomer</li> <li>• Astronaut on a space station or rocket</li> <li>• Rocket designer</li> </ul>	<p>Opportunities in the role play area</p> <ul style="list-style-type: none"> <li>• Entomologist</li> <li>• Ecologist</li> <li>• Environmentalist</li> <li>• Environmental scientist</li> <li>• Beekeeper</li> </ul> <p><i>Visit Harlow Carr</i></p> <ul style="list-style-type: none"> <li>• <i>Visit from Lion Learners</i></li> </ul>	<p>Opportunities in the role play area</p> <ul style="list-style-type: none"> <li>• Builder</li> <li>• Architect</li> <li>• Structural engineer</li> </ul> <ul style="list-style-type: none"> <li>• <i>Den building day</i></li> </ul>
<b>Cross Curricular links/Texts</b>	<p>I Love My Hair by Natasha Anastasia Tarpley What I Like About Me by Alia Zobel-Nolan</p>	<p>Lost and Found by Oliver Jeffers Shark in the Park by Nick Sharratt One Day on our Blue Planet: In the Antarctic by Ella Bailey Poles Apart by Jeanne Willis Bears by Sally Morgan Usborne Beginners Bears by Helen Helbrough</p>	<p>Mr Gumpy's Outing by John Burningham Mr Archimedes' Bath by Pamela Allen Who sank the boat? by Pamela Allen Stickman by Julia Donaldson Flotsam by David Wiesner Blown Away by Rob Biddulph</p>	<p>Whatever Next! by Jill Murphy Astro Girl by Ken Wilson-Max Look Up! by Nathan Bryon How to Catch a Star by Oliver Jeffers Owl Babies by Martin Waddell</p>	<p>Incey, Wincey Spider Ladybird, Ladybird Fly Away Home Bad-Tempered Ladybird by Eric Carle Mad About Minibeasts by David Wojtowycz &amp; Giles Andreae Ben Plants a Butterfly Garden by Kate Petty Norman the Slug with the Silly Shell by Sue Hendra Aargh a Spider by Lydia Monks Insects: A Close-up Look by Peter Seymour We're Going on a Bear Hunt by Michael Rosen and Helen Oxenbury</p>	<p><i>Traditional Tales</i></p>
<p style="writing-mode: vertical-rl; transform: rotate(180deg);"><b>Working scientifically opportunities</b></p>	<p><b>Classification</b></p> <ul style="list-style-type: none"> <li>• Sort images of people according to their characteristics.</li> </ul> <p><b>Researching using secondary sources</b></p> <ul style="list-style-type: none"> <li>• Find out information from visitors (dentist, nurse etc.).</li> </ul> <p><b>Pattern seeking</b></p> <ul style="list-style-type: none"> <li>• Are taller children faster? Are taller children stronger?</li> </ul>	<p><b>Classification</b></p> <ul style="list-style-type: none"> <li>• Sort animals according to where they live.</li> </ul> <p><b>Researching using secondary sources</b></p> <ul style="list-style-type: none"> <li>• Learn how animals from a different habitat are cared for.</li> <li>• Learn about animals in a different habitat.</li> </ul> <p><b>Comparative testing</b></p> <ul style="list-style-type: none"> <li>• How quickly do ice cubes melt in different areas of the playground?</li> </ul>	<p><b>Comparative testing</b></p> <ul style="list-style-type: none"> <li>• How many cubes/small plastic animals can fit in different 'boats'</li> <li>• Compare how cars move down ramps/gutters.</li> <li>• Compare how wheels turn when sand or</li> </ul>	<p><b>Comparative testing</b></p> <ul style="list-style-type: none"> <li>• Make and testing air-propelled rockets to find out which is the 'best'.</li> </ul> <p><b>Pattern seeking</b></p> <ul style="list-style-type: none"> <li>• Find simple patterns in how light levels and temperature change with the movement, or obscuring of, the Sun. Research using secondary sources</li> </ul>	<p><b>Classification</b></p> <ul style="list-style-type: none"> <li>• Name and describe animals they find in the school grounds.</li> </ul> <p><b>Pattern seeking</b></p> <p>Look for minibeasts in different areas of the school grounds.</p>	<p><b>Comparative testing</b></p> <ul style="list-style-type: none"> <li>• How are pizza bases different when made with different flours?</li> <li>• How does a loaf cook differently in different tins?</li> <li>• How do cupcakes cook if they have different amounts of mixture? Observing over time</li> <li>• How does cake mixture/bread dough change as it is cooked?</li> </ul>

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		<ul style="list-style-type: none"><li>• How does the block of ice change over time?</li><li>• How does a snowman change over time?</li></ul>	<p>water is poured through.</p> <ul style="list-style-type: none"><li>• Compare how objects fall.</li><li>• Compare how objects fall with and without parachutes.</li><li>• Compare how different balls bounce.</li><li>• Compare how things move when blown.</li></ul>	<ul style="list-style-type: none"><li>• Find out about the Solar System, stars and space travel.</li></ul> <p>Find out about nocturnal animals.</p>		<ul style="list-style-type: none"><li>• Who can build the tallest tower?</li><li>• Which material is the strongest?</li></ul> <p><b>Classification</b> Sort materials using simple properties.</p>
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