



Clore Shalom School  
**Science Curriculum Map**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<p><b>Similarities and differences between families, family customs and routines, houses and homes. Senses, bodies.</b> (B)</p> <p><b>Recycling activities</b> (P)</p> <p><b>Communication and Language:</b></p> <ul style="list-style-type: none"> <li>Learn and use new vocabulary.</li> <li>Ask questions to investigate</li> <li>Articulate their ideas</li> <li>Describe events in some detail.</li> <li>Work out problems and organise thinking and activities</li> <li>Explain how things work and why they might happen.</li> </ul> <p><b>Personal, Social and Emotional Development:</b></p> <ul style="list-style-type: none"> <li>Know and talk about the different factors that support their overall health and wellbeing.</li> </ul>	<p><b>Making waterproof clothing for Teddy Bears</b> (P)</p> <p><b>Using microscope to look at leaves and patterns</b> (P)</p> <p><b>Communication and Language:</b></p> <ul style="list-style-type: none"> <li>Learn and use new vocabulary.</li> <li>Ask questions to investigate</li> <li>Articulate their ideas</li> <li>Describe events in some detail.</li> <li>Work out problems and organise thinking and activities</li> </ul> <p><b>Understanding the World:</b></p> <ul style="list-style-type: none"> <li>Changes in the natural world.</li> </ul>	<p><b>Going on an environmental walk</b> (B)</p> <p><b>Understanding the World:</b></p> <ul style="list-style-type: none"> <li>Explore the natural world</li> <li>Describe senses</li> <li>Recognise different environments</li> <li>Changes in the natural world.</li> <li>Making observations and drawings.</li> </ul> <p><b>Communication and Language:</b></p> <ul style="list-style-type: none"> <li>Ask questions to investigate</li> <li>Articulate their ideas</li> </ul> <p><b>Personal, Social and Emotional Development:</b></p> <ul style="list-style-type: none"> <li>Know and talk about the different factors that support their overall health and wellbeing.</li> </ul>	<p><b>Boats- what material makes a good boat?</b> (P)</p> <p><b>Science experiments</b> (C)</p> <p><b>Communication and Language:</b></p> <ul style="list-style-type: none"> <li>Learn and use new vocabulary.</li> <li>Ask questions to investigate</li> <li>Articulate their ideas</li> <li>Describe events in some detail.</li> <li>Work out problems and organise thinking and activities</li> </ul> <p><b>Understanding the World:</b></p> <ul style="list-style-type: none"> <li>Changes in the natural world.</li> </ul>	<p><b>Lifecycles</b> (B)</p> <p><b>Mini beast hunting</b> (B)</p> <p><b>Understanding the World:</b></p> <ul style="list-style-type: none"> <li>Explore the natural world</li> <li>Describe senses</li> <li>Recognise different environments</li> <li>Changes in the natural world.</li> </ul> <p><b>Communication and Language:</b></p> <ul style="list-style-type: none"> <li>Articulate their ideas</li> <li>Know and talk about the different factors that support their overall health and wellbeing.</li> <li>Making observations and drawings.</li> </ul>	<p><b>Habitats</b> (B)</p> <p><b>Keeping healthy</b> (B)</p> <ul style="list-style-type: none"> <li>Know and talk about the different factors that support their overall health and wellbeing.</li> <li>Explore the natural world</li> <li>Describe senses</li> <li>Recognise different environments</li> <li>Changes in the natural world.</li> </ul> <p><b>Personal, Social and Emotional Development:</b></p> <ul style="list-style-type: none"> <li>Articulate their ideas</li> <li>Know and talk about the different factors that support their overall health and wellbeing.</li> <li>Making observations and drawings.</li> </ul>



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Year 1	<p><b>Seasonal Changes (P)</b></p> <ul style="list-style-type: none"> <li>Order the 4 seasons</li> <li>Describe different types of weather</li> </ul> <p><b>Everyday Materials (C)</b></p> <ul style="list-style-type: none"> <li>Identify the material from which an object is made</li> <li>Identify and name a variety of everyday materials, including: wood, plastic, glass, metal, water, and rock</li> <li>Describe simple physical properties of a variety of everyday materials</li> <li>Compare and group together everyday materials based on their simple physical properties</li> </ul>	<p><b>Animals inc. Humans (B)</b></p> <ul style="list-style-type: none"> <li>Describe, compare, identify and name a variety of: fish, amphibians, reptiles, birds and mammals</li> <li>Describe, compare identify and name a variety of: carnivores, herbivores and omnivores</li> </ul>	<p><b>Animals inc. Humans (B)</b></p> <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.</li> </ul> <p><b>Seasonal Changes (P)</b></p> <ul style="list-style-type: none"> <li>Observe changes across the 4 seasons – clothes</li> <li>Investigate and record rain</li> <li>Secondary data recordings</li> <li>Hours of daylight</li> </ul>	<p><b>Plants (B)</b></p> <ul style="list-style-type: none"> <li>Identify and name a variety of common wild and garden plants</li> <li>Identify and describe the basic structure of a variety of common flowering plants, including trees</li> </ul>	<p><b>Pets &amp; Gardens</b></p> <ul style="list-style-type: none"> <li>Identify and name a variety of common wild and garden plants</li> <li>Identify and describe the basic structure of a variety of common flowering plants, including trees</li> <li>Describe how to look after a variety of pets</li> </ul>
Year 2	<p><b>Use of everyday materials (C)</b></p> <ul style="list-style-type: none"> <li>Identify and compare the suitability of a variety of everyday materials for a particular purpose, including: wood, metal, plastic, glass, brick, rock, paper</li> <li>Investigate out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching</li> </ul>	<p><b>Animals inc. Humans (B)</b></p> <ul style="list-style-type: none"> <li>Note that animals, including humans, have offspring which grow into adults</li> <li>Find out about and describe the basic needs of animals, including humans, for survival</li> <li>Describe the importance for humans of: exercise, eating the right amounts of different types of food, and hygiene</li> </ul>	<p><b>Plants (B)</b></p> <ul style="list-style-type: none"> <li>Observe and describe how seeds and bulbs grow</li> <li>Investigate and describe the basic needs of a plant</li> </ul>	<p><b>Living Things &amp; their Habitats (B)</b></p> <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</li> <li>Identify how habitats are suited for the living thing within it</li> <li>Describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other</li> <li>Identify and name a variety of plants and animals in their habitats, including microhabitats</li> <li>Describe how animals obtain their food from plants and other animals, through a simple food chain</li> </ul>	



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Year 3	<p><b>Animals inc. Humans (B)</b></p> <ul style="list-style-type: none"> <li>Identify that animals, including humans, need the right types and amount of nutrition, and that they get nutrition from what they eat not from themselves</li> <li>Understand that humans and some other animals have skeletons and muscles for support, protection and movement</li> </ul>	<p><b>Light (P)</b></p> <ul style="list-style-type: none"> <li>Recognise that light is needed 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>Understand that shadows are formed when the light from a light source is blocked by an opaque object</li> <li>Find patterns in the way that the size of shadows change</li> </ul>	<p><b>Rocks (C)</b></p> <ul style="list-style-type: none"> <li>Compare and group together different kinds of rocks based on their appearance and physical properties</li> <li>Describe in simple terms how fossils are formed</li> <li>Recognise that soils are made from rocks and organic matter</li> </ul>	<p><b>Plants (B)</b></p> <ul style="list-style-type: none"> <li>Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</li> <li>Explore the requirements of plants for life and growth and how they vary</li> <li>Investigate the way in which water is transported within plants</li> <li>Explore the part that flowers play in the life cycle of flowering plants: pollination, seed formation and seed dispersal</li> </ul>	<p><b>Forces &amp; Magnets (P)</b></p> <ul style="list-style-type: none"> <li>Compare how things move on different surfaces</li> <li>Note that some forces need contact between 2 objects, but magnetic forces can act at a distance</li> <li>Observe how magnets attract or repel each other and attract some materials and not others</li> <li>Compare and group together a variety of everyday materials (magnetic materials)</li> <li>Describe magnets as having 2 poles</li> <li>Predict whether 2 magnets will attract or repel each other, depending on which poles are facing</li> </ul>	
Year 4	<p><b>Animals inc. Humans (B)</b></p> <ul style="list-style-type: none"> <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> <li>Construct and interpret a variety of food chains, identifying producers, predators and prey</li> </ul>	<p><b>Electricity (P)</b></p> <ul style="list-style-type: none"> <li>Identify common appliances</li> <li>Construct a simple series electrical circuit, identifying and naming its basic parts: cells, wires, bulbs, switches and buzzers</li> <li>Understand the role of a switch in a simple circuit</li> <li>Identify whether or not a lamp will light in a simple series circuit, based on whether it is part of a complete loop with a battery</li> <li>Recognise some common conductors and insulators</li> <li>Understand that metals are good conductors</li> </ul>	<p><b>States of matter (C)</b></p> <ul style="list-style-type: none"> <li>Compare and group materials together: solids, liquids or gases</li> <li>Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens (°C)</li> <li>Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature</li> </ul>		<p><b>Sound (P)</b></p> <ul style="list-style-type: none"> <li>Identify how sounds are made, associating some of them with vibrations</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>	<p><b>Living Things &amp; Their Habitats (B)</b></p> <ul style="list-style-type: none"> <li>Recognise that living things can be grouped in a variety of ways</li> <li>Use classification keys to help group, identify and name a variety of living things in their local and wider environment</li> <li>Understand that changing environments can sometimes pose dangers to living things</li> </ul>



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Year 5	<b>Properties and changes of materials (C)</b> <ul style="list-style-type: none"><li>• Compare and group together everyday materials on the basis of their properties: hardness, solubility, transparency, conductivity (electrical and thermal), and magnetism</li><li>• Know that materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution</li><li>• Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating</li><li>• Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic</li><li>• Demonstrate that dissolving, mixing and changes of state are reversible changes</li><li>• Explain that some changes result in the formation of new materials, and that this kind of change is usually irreversible</li></ul>	<b>Earth &amp; Space</b> <ul style="list-style-type: none"><li>• Describe the movement of the Earth and other planets relative to the sun</li><li>• Describe the movement of the moon relative to the Earth</li><li>• Describe the sun, Earth and moon as approximately spherical bodies</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</li></ul>	<b>Living Thing &amp; their Habitats (B)</b> <ul style="list-style-type: none"><li>• Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</li><li>• Describe the life process of reproduction in some plants and animals</li></ul>	<b>Animals Inc. Humans (B)</b> <ul style="list-style-type: none"><li>• Describe the changes as humans develop to old age</li></ul>	<b>Forces (P)</b> <ul style="list-style-type: none"><li>• Explain that unsupported objects fall towards the Earth because of the force of gravity</li><li>• Identify the effects of resistance forces</li><li>• Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect</li></ul>
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Year 6	<b>Living Things &amp; Their Habitats (B)</b> <ul style="list-style-type: none"><li>• Describe how living things are classified into broad groups based on common observable characteristics and based on similarities and differences</li><li>• Give reasons for classifying plants and animals based on specific characteristics</li></ul>	<b>Light (P)</b> <ul style="list-style-type: none"><li>• Recognise that light appears to travel in straight lines and use this 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>	<b>Electricity (P)</b> <ul style="list-style-type: none"><li>• Associate the brightness of a lamp or the volume of a buzzer with the voltage of cells used in the circuit</li><li>• Compare and give reasons for variations in how components function</li><li>• Use recognised symbols when representing a simple circuit in a diagram</li></ul>	<b>Animals Inc Humans (B)</b> <ul style="list-style-type: none"><li>• Identify and name the main parts of the human circulatory system</li><li>• Describe the functions of the heart, blood vessels and blood</li><li>• Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</li><li>• Describe the ways in which nutrients and water are transported within animals, including humans</li></ul>	<b>Evolution and Inheritance (B)</b> <ul style="list-style-type: none"><li>• Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</li><li>• Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</li><li>• Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution</li></ul>
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