



Science
Clapham and Patching CofE Primary School
End of Year Expectations

	RECEPTION	YEAR 1	YEAR 2
Working Scientifically	<p>The Natural World ELG Children at the expected level of development will: - Explore the natural world around them, making observations and ...</p>	<p>Y1.1 Children use different approaches to answer scientific questions</p> <p>Y1.2 They know how to carry out simple tests</p> <p>Y1.3 They know how to organise objects or materials into groups</p>	<p>Y2.1 They know how to use simple equipment for observations</p> <p>Y2.2 They can link ideas and answers to observations</p> <p>Y2.3 They know how to collect information to help to answer scientific questions</p>
Living Things	<p>...drawing pictures of animals and plants; - Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class;</p>	<p>Y1.4 They know the names of the main parts of plants and trees</p> <p>Y1.5 They know the names of the main parts of the body, including those related to the 5 senses</p>	<p>Y2.4 They can describe how some plants and animals are suited to different habitats</p> <p>Y2.5 They know how animals obtain food by eating plants or other animals</p> <p>Y2.6 They know the basic needs for plant growth (light, water, appropriate temperature)</p> <p>Y2.7 They know the basic needs of humans and other animals (water, food, air)</p>
Materials	<p>- Understand some important processes and changes in the natural world around them, including changing states of matter.</p>	<p>Y1.6 They can distinguish between an object and the material from which it is made</p>	<p>Y2.8 They know different uses of materials according to their properties</p>
Physical Processes	<p>- Understand some important processes and changes in the natural world around them, including the seasons</p>	<p>Y1.7 They know the simple physical properties of a variety of everyday materials</p> <p>Y1.8 They know how the weather varies with the season</p>	

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	YEAR 3	YEAR 4
Working Scientifically	<p>Y3.1 They know how to set up simple fair tests</p> <p>Y3.2 They know how to collect and present data from scientific experiments</p> <p>Y3.3 They know how to use results from experiments to draw simple conclusions or suggest improvements</p>	<p>Y4.1 They know how to take accurate measurements using a range of scientific apparatus</p> <p>Y4.2 They know how to present findings using tables, graphs and charts as appropriate</p> <p>Y4.3 They know how to use straightforward evidence in support of ideas</p>
Living Things	<p>Y3.4 They know the main requirements for plant growth (air, light, water, nutrients from soil, and room to grow)</p> <p>Y3.5 They know the main stages of plant reproduction (pollination, fertilisation, seed dispersal)</p> <p>Y3.6 They can explain some functions of skeletons and muscles in animals</p>	<p>Y4.4 They know how to use a classification key to identify plants or animals</p> <p>Y4.5 They know the simple functions of the basic parts of the digestive system in humans</p> <p>Y4.6 They can construct and interpret a variety of food chains, identifying producers, predators and prey.</p>
Materials	<p>Y3.7 They know the three main rock types and describe their properties</p>	<p>Y4.7 They can compare and group materials together, according to whether they are solids, liquids or gases</p> <p>Y4.8 They know the main stages of the water cycle</p>
Physical Processes	<p>Y3.8 They know that light is reflected from surfaces</p> <p>Y3.9 They can find patterns in the way that the sizes of shadows change</p> <p>Y3.10 They know how to group materials according to their magnetic properties</p>	<p>Y4.9 They know that vibrations from sounds travel through a medium to the ear</p> <p>Y4.10 They can construct a simple series electrical circuit, identifying and naming its basic parts</p>

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KNOW ABOUT	YEAR 5	YEAR 6
Working Scientifically	<p>Y5.1 They can plan scientific investigations, including controlling variables where appropriate</p> <p>Y5.2 They know how to record data using diagrams, keys, tables and a range of graphs</p> <p>Y5.3 They know how to report conclusions and explanations from scientific investigations</p>	<p>Y6.1 They know how to use test results to design further investigations</p> <p>Y6.2 They know how to use simple models to describe scientific ideas</p> <p>Y6.3 They can identify scientific evidence that has been used to support or refute ideas or arguments</p>
Living Things	<p>Y5.4 They know the life process of reproduction in some plants and animals.</p>	<p>Y6.4 They can classify some plants, animals or micro-organisms, explaining the choices made</p> <p>Y6.5 They can explain the main parts and functions of the human circulatory system, including heart and blood vessels</p> <p>Y6.6 They know that living things produce offspring which are not usually identical to their parents</p> <p>Y6.7 They know how the adaptation of plants and animals over time may lead to evolution</p>
Materials	<p>Y5.5 They know how mixtures can be separated through filtering, sieving and evaporating</p> <p>Y5.6 They know that some irreversible changes form new materials</p>	
Physical Processes	<p>Y5.7 They know the movement of the Earth, and other planets, relative to the Sun</p> <p>Y5.8 They know what causes day and night on earth, and the apparent movement of the Sun</p> <p>Y5.9 They know that gravity causes unsupported objects to fall towards the Earth</p> <p>Y5.10 They know the effects of air resistance, water resistance and friction between moving surfaces</p>	<p>Y6.8 They know that we see things which either give out or reflect light</p> <p>Y6.9 They know how the number of voltage of cells affects bulbs, buzzers or motors in a circuit</p> <p>Y6.10 They know how to representing a simple circuit in a diagram, using recognised symbols</p>