## CURRICULUM OVERVIEW FOR KS2 SCIENCE

	Reception/Year 1	Year 1/2	Year 3/4	Year 4/5	Year 5/6
Autumn Term			<ul> <li>Forces &amp; magnets</li> <li>compare how things move on different surfaces</li> <li>notice that some forces need contact between two 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 on the basis of whether they are attracted to a magnet, and identify some magnetic materials</li> <li>describe magnets as having two poles</li> <li>predict whether two magnets will attract or repel each other, depending on which poles are facing.</li> </ul>	Y4 children as for Y3/4 Y5 children as for Y5/6	<ul> <li>Forces</li> <li>explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</li> <li>identify the effects of air resistance, water resistance and friction, that act between moving surfaces</li> <li>recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.</li> <li>Animals describe the changes as humans develop to old age. Identify and describe different organs in human body</li> </ul>
Spring Term			Rocks • compare and group together different kinds of rocks on the basis of their appearance and simple physical properties • describe in simple terms how fossils are formed when things that have lived are trapped within rock • recognise that soils are made from rocks and organic matter.	Y4 children as for Y3/4 Y5 children as for Y5/6	Evolution & Inheritance recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago • recognise that living things produce offspring of the same kind, but

	• or th • ca arr • for so • f	<b>ight</b> recognise that they need light in rder to see things and that dark is he absence of light notice that light is reflected rom surfaces recognise that light from the sun an be dangerous and that there re ways to protect their eyes recognise that shadows are ormed when the light from a light ource is blocked by a solid object find patterns in the way that the ize of shadows change.		identical to their parents • identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution. Pupils might find out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution. <b>Light</b> • recognise that light appears to travel in straight lines • use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye • 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 • use the idea that light travels in straight lines to explain why shadows have the same shape as the objects
Summer Term	of roo pla wa to pla in in in in	Plants identify and describe the functions f different parts of flowering plants: bots, stem/trunk, leaves and flowers explore the requirements of lants for life and growth (air, light, vater, nutrients from soil, and room o grow) and how they vary from lant to plant investigate the way in which water transported within plants explore the part that flowers play the life cycle of flowering plants, including pollination, seed formation nd seed dispersal	Y4 children as for Y3/4 Y5 children as for Y5/6	Living Things • describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird • describe the life process of reproduction in some plants and animals. Pupils could find out about the work of naturalists and animal behaviourists, for example, David Attenborough and Jane Goodall