Year 3 Science			
Working Scientifically	Animals including humans	Plants	
<ul> <li>ask questions and use different types of scientific enquiries to answer them</li> <li>set up simple practical enquiries, comparative and fair tests.</li> <li>make observations and take measurements using standard units, using a range of equipment, including thermometers and data loggers.</li> <li>gather, record, classify and present data in a variety of ways to help with answering questions.</li> <li>record findings using simple scientific language, drawings ,labelled diagrams, keys, bar charts, and tables.</li> <li>report on findings from enquiries, including spoken and written explanations, displays or presentations of results and conclusions.</li> <li>use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.</li> <li>explain differences, similarities or changes related to simple scientific ideas and processes.</li> <li>use straightforward scientific evidence to answer questions or to support my findings.</li> </ul>	<ul> <li>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</li> <li>Identify that humans and some other animals have skeletons and muscles for support, protection and movement.</li> <li>Inspirational Person link: Charlotte Armah</li> </ul>	<ul> <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 (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant</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, including pollination, seed formation and seed dispersal.</li> </ul> Inspirational Person link: Marie Clark-Taylor (Botanist)	
Greater depth			
<ul> <li>develop relevant, testable questions.</li> <li>plan investigations using different types of scientific enquiry.</li> <li>set up comparative and fair tests.</li> <li>use various equipment, as instructed, repeatedly and with care.</li> <li>recognise the importance of using standard units and measure accurately.</li> <li>use words and diagrams to record findings.</li> <li>use various ways to record, group and display evidence.</li> <li>write a conclusion based on evidence.</li> <li>present findings either in writing or orally.</li> <li>recognise patterns that relate to scientific ideas.</li> <li>use evidence to produce a simple conclusion.</li> <li>use evidence to suggest further relevant investigations</li> </ul>	<ul> <li>Explain why a varied diet is important.</li> <li>Compare the ways that the skeletons of different animals provide support, protection and movement.</li> </ul>	<ul> <li>Suggest why parts may vary in size and shape from one species of flowering plant to another.</li> <li>Suggest how this process might vary from one type of plant to another.</li> <li>Suggest why pollination, seed formation and seed dispersal may vary from one type of plant to another.</li> </ul>	

Forces and Magnets	Light	Rocks	
<ul> <li>compare how things move on different surface</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>	<ul> <li>recognise that they need light 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>recognise 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> <li>Inspirational Person link:Lewis Howard Latimer</li> </ul>	<ul> <li>compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</li> <li>describe in simple terms how fossils are formed when things that have lived are trapped within rock</li> <li>recognise that soils are made from rocks and organic matter</li> </ul>	
Greater depth			
<ul> <li>Predict how an object will move on other surfaces and suggest why.</li> <li>Explore how magnetic attraction and repulsion are affected by distance.</li> <li>Explore whether some magnets are stronger than others.</li> <li>Identify some applications of magnets and magnetic materials.</li> <li>Explore the similarities and differences between the two poles.</li> <li>Apply ideas about the interaction of magnets to contexts such as toys.</li> </ul>	<ul> <li>Recognise that vision involves light travelling to the eyes.</li> <li>Recognise that some surfaces are better at reflecting light than others.</li> <li>Explain why sunlight can be dangerous and how types of protection work.</li> <li>Suggest how light is travelling to form a shadow.</li> <li>Relate position of an object and position of a screen to the size of the shadow.</li> </ul>	<ul> <li>Explain the importance of studying fossils.</li> <li>Compare different soils in terms of composition.</li> <li>Suggest uses for different kinds of rocks based on their properties</li> </ul>	

Types of scientific enquiry
Comparative & fair test
Research using secondary sources
Pattern seeking
Observation over time
Identifying & classifying