

		Science				
Year3	Autumn--- Rocks and Soil		Spring Forces and Energy		Summer	Animals, Including Humans and Plants
	Term1	Term2	Term1	Term2	Term1	Term2
	Rocks	Soil	Forces –Magnetism	Moving & Growing	Light and Shadow	Helping Plants Grow
Knowledge	<ul style="list-style-type: none"> - How are the 3 types of rocks formed -compare and group together different kinds of rocks based on their appearance and simple physical properties -the type of rocks that are used in building England’s famous monuments -what are fossils and how they are formed - why are fossils important 	<ul style="list-style-type: none"> -how soil is formed and the profile of soil -the different types of soils in different parts of UK and understand why it is different -the importance of soil 	<ul style="list-style-type: none"> -the different types of forces -that some forces need contact between 2 objects, but magnetic forces can act at a distance -that magnets can attract and repel -what magnetic poles are - how Earth acts as magnet -the uses of magnets 	<ul style="list-style-type: none"> -that not all animals have an internal skeleton and that the presence of this is an important feature in classifying them -that a skeleton is needed for support, protection and movement -how muscles work in pairs to allow movement and maintain posture -common bones in human body -what we need for good growth of the body -what makes a balanced diet 	<ul style="list-style-type: none"> -We need light to see things even shiny things -understand reflection -Light comes from a source -that light travels in straight line -how shadows are formed -how a reflection is created -what an eclipses is and name two different types 	<ul style="list-style-type: none"> -Identify and describe the functions of different parts of a flowering plant: roots, stem, leaves, trunk and flowers -Explore the part flowers play in a flowering plant - Explore pollination, seed formation and seed dispersal
Skills	<ul style="list-style-type: none"> -identify specific rock using a key -plan a fair test to find out the hardness ,acid test and permeability of rocks -explain why fossil fuels are formed in sedimentary rocks -explain why fossil fuels not good for the environment 	<ul style="list-style-type: none"> -plan a fair test to test the permeability of soil - why are worms important to the creation of soil? -how can we use composting to make our own soil? 	<ul style="list-style-type: none"> -plan a fair test to investigate the strength of magnets - investigate magnetic and non-magnetic material(which material will you use to manufacture a fridge) - investigate which metal will you use to make microwave doors -investigate properties of a magnet 	<ul style="list-style-type: none"> -investigate what happens to our skeletons from the day we are born until we become an adult -investigate length of the femur and how far you can jump -investigate Do all human skeletons’ grow at the same rate? -investigate how lifestyle of an athlete differs from ordinary people -identify and compare skeletons of different animals 	<ul style="list-style-type: none"> -plan a fair test to find patterns in the way that the size of shadows changes -What would be the best to make a safety jacket from? -how can we change the darkness, size and shape of a shadow 	<ul style="list-style-type: none"> -plan a fair test to investigate what plants need in order to grow. - investigate the way in which water is transported in plants -plan a fair test to find which seed will travel the furthest
Key vocabulary	<ul style="list-style-type: none"> igneous metamorphic sedimentary fossil soil topsoil compost 	<ul style="list-style-type: none"> manure decompose 	<ul style="list-style-type: none"> property magnetism push pull poles attract repel 	<ul style="list-style-type: none"> exo/ endoskeleton nutrients vertebrates invertebrates fibre muscles 	<ul style="list-style-type: none"> Ultraviolet light reflection light source reflect opaque transparent translucent 	<ul style="list-style-type: none"> dispersal nourish flower transportation chlorophyll pollination anchor
Links			<ul style="list-style-type: none"> Design and Technology Bridges Maths Statistics Pictograms and bar charts 	<ul style="list-style-type: none"> Design and Technology Making sandwiches/rice crispys Literacy Instructions PSHE Healthy Me PE Athletics –stamina for long distance, obstacle challenges Netball Elbow to knee and hand to face technique for running, 	<ul style="list-style-type: none"> Computing Data and information- Data logging Maths Statistics 	<ul style="list-style-type: none"> Geography Chocolate – From bean to bar / Fair Trade Maths Statistics Pictograms and bar charts