

		Science				
		Autumn--- Rocks and Soil	Spring Forces and Energy		Summer Animals, Including Humans and Plants	
Year3	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"> <li>- How are the 3 types of rocks formed</li> <li>-compare and group together different kinds of rocks based on their appearance and simple physical properties</li> <li>-the type of rocks that are used in building England’s famous monuments</li> <li>-what are fossils and how they are formed</li> <li>- why are fossils important</li> </ul>	<ul style="list-style-type: none"> <li>-how soil is formed and the profile of soil</li> <li>-the different types of soils in different parts of UK and understand why it is different</li> <li>-the importance of soil</li> </ul>	<ul style="list-style-type: none"> <li>-the different types of forces</li> <li>-that some forces need contact between 2 objects, but magnetic forces can act at a distance</li> <li>-that magnets can attract and repel</li> <li>-what magnetic poles are</li> <li>- how Earth acts as magnet</li> <li>-the uses of magnets</li> </ul>	<ul style="list-style-type: none"> <li>-that not all animals have an internal skeleton and that the presence of this is an important feature in classifying them</li> <li>-that a skeleton is needed for support, protection and movement</li> <li>-how muscles work in pairs to allow movement and maintain posture</li> <li>-common bones in human body</li> <li>-what we need for good growth of the body</li> <li>-what makes a balanced diet</li> </ul>	<ul style="list-style-type: none"> <li>-We need light to see things even shiny things</li> <li>-understand reflection</li> <li>-Light comes from a source</li> <li>-that light travels in straight line</li> <li>-how shadows are formed</li> <li>-how a reflection is created</li> <li>-what an eclipses is and name two different types</li> </ul>	<ul style="list-style-type: none"> <li>-Identify and describe the functions of different parts of a flowering plant: roots, stem, leaves, trunk and flowers</li> <li>-Explore the part flowers play in a flowering plant</li> <li>- Explore pollination, seed formation and seed dispersal</li> </ul>
Skills	<ul style="list-style-type: none"> <li>-identify specific rock using a key</li> <li>-plan a fair test to find out the hardness ,acid test and permeability of rocks</li> <li>-explain why fossil fuels are formed in sedimentary rocks</li> <li>-explain why fossil fuels not good for the environment</li> </ul>	<ul style="list-style-type: none"> <li>-plan a fair test to test the permeability of soil</li> <li>- why are worms important to the creation of soil?</li> <li>-how can we use composting to make our own soil?</li> </ul>	<ul style="list-style-type: none"> <li>-plan a fair test to investigate the strength of magnets</li> <li>- investigate magnetic and non-magnetic material( which material will you use to manufacture a fridge )</li> <li>- investigate which metal will you use to make microwave doors</li> <li>-investigate properties of a magnet</li> </ul>	<ul style="list-style-type: none"> <li>-investigate what happens to our skeletons from the day we are born until we become an adult</li> <li>-investigate length of the femur and how far you can jump</li> <li>-investigate Do all human skeletons’ grow at the same rate?</li> <li>-investigate how lifestyle of an athlete differs from ordinary people</li> <li>-identify and compare skeletons of different animals</li> </ul>	<ul style="list-style-type: none"> <li>-plan a fair test to find patterns in the way that the size of shadows changes</li> <li>-What would be the best to make a safety jacket from?</li> <li>-how can we change the darkness, size and shape of a shadow</li> </ul>	<ul style="list-style-type: none"> <li>-plan a fair test to investigate what plants need in order to grow.</li> <li>- investigate the way in which water is transported in plants</li> <li>-plan a fair test to find which seed will travel the furthest</li> </ul>
Key vocabulary	<ul style="list-style-type: none"> <li>igneous</li> <li>metamorphic</li> <li>sedimentary</li> <li>fossil</li> <li>soil</li> <li>topsoil</li> <li>compost</li> </ul>	<ul style="list-style-type: none"> <li>manure</li> <li>decompose</li> </ul>	<ul style="list-style-type: none"> <li>property</li> <li>magnetism</li> <li>push</li> <li>pull</li> <li>poles</li> <li>attract</li> <li>repel</li> </ul>	<ul style="list-style-type: none"> <li>exo/ endoskeleton</li> <li>nutrients</li> <li>vertebrates</li> <li>invertebrates</li> <li>fibre</li> <li>muscles</li> </ul>	<ul style="list-style-type: none"> <li>Ultraviolet light</li> <li>reflection</li> <li>light source</li> <li>reflect</li> <li>opaque</li> <li>transparent</li> <li>translucent</li> </ul>	<ul style="list-style-type: none"> <li>dispersal</li> <li>nourish</li> <li>flower</li> <li>transportation</li> <li>chlorophyll</li> <li>pollination</li> <li>anchor</li> </ul>
Links			<ul style="list-style-type: none"> <li>Design and Technology</li> <li>Bridges</li> <li>Maths</li> <li>Statistics</li> <li>Pictograms and bar charts</li> </ul>	<ul style="list-style-type: none"> <li>Design and Technology</li> <li>Making sandwiches/rice crispys</li> <li>Literacy</li> <li>Instructions</li> <li>PSHE</li> <li>Healthy Me</li> <li>PE</li> <li>Athletics –stamina for long distance, obstacle challenges</li> <li>Netball</li> <li>Elbow to knee and hand to face technique for running,</li> </ul>	<ul style="list-style-type: none"> <li>Computing</li> <li>Data and information- Data logging</li> <li>Maths</li> <li>Statistics</li> </ul>	<ul style="list-style-type: none"> <li>Geography</li> <li>Chocolate – From bean to bar / Fair Trade</li> <li>Maths</li> <li>Statistics</li> <li>Pictograms and bar charts</li> </ul>
Subject Builder	Questions, 1 & 3	Questions 6 & 8	Questions 3,4 & 7	Questions 1,2 & 10	Questions 1,3 & 4	Questions 2, 5 & 8