Working Scientifically skills (Years 3 and 4)				
Ask Plan an Scientific inquiry questions	Making Observe closely predictions	TakingGathering andmeasurementsrecordingresults	Presenting results Interpreting results	Drawing <u>Evaluating</u> conclusions
Enquiry Type				
Comparative and Fair testing	Observing over time Lesson 4, Lesson 5	Classifying, grouping and sorting Lesson 1, Lesson 2, Lesson 3, Lesson 6	Pattern Seeking	Research using Secondary sources
National Curriculum	Prior Learning	Future Learning	Sticky Knowledge (Golden	Vocabulary
			Threads)	
 Compare and group together different types of rock based on their appearance and simple physical properties Describe in simple terms how fossils are formed when things that have lived are trapped within rock Common recognize that soils are made from rocks and organic matter 	Year 1 Everyday Materials Between an object and the material from which it is made. Identify and name a variety of everyday materials Describe the simple physical properties of a variety of everyday materials Compare and group together everyday materials on the basis of their physical properties	Year 6 Evolution Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.	 There are different types of rock – sedimentary igneous and metamorphic There are different types of soil, peat, chalk, clay. Soils change over time Different plants grow in different soils Fossils tell us what has happened before Fossils provide evidence that living things have changed over time Paleontologists use fossils to find out about the past 	RockAbsorbentStoneFossilPebbleBoneBoulderFleshGranMineralCrystalsChalkHardGraniteSoftSandstoneTextureSlate SoilDiagram SimilarityJifference Information
Misconceptions	Enquiry Questions	Learning	opportunities	Famous Scientist
Children may think: Rocks are all hard in nature Concrete, bricks are manmade materials that have been shaped or polished for use. They are not rocks as they are not natural Fossil re an actual piece of an extinct animal or plant therefore pottery and coins or other artefact are not fossils Soil and compost are the same	 How many different ways can I sort objects Are rocks different? Do different types of rocks have different properties What is a fossil? What is a soil? How are soils different? 	 Sort chocolates according to app diagram and compare and on collect scrapings onto white and justify their selection of Make own fossil and write with S. Collect soil from different ar Write a description about the what happens Sort different types of soil 	o appearance and texture learance and texture using a Carroll contrast table Children to rub rocks on sandpaper and a paper. Ask children to order the rocks strongest rock. what happened in each step reas, feel it, smell it, observe what's in it. le soils. Mix it with water and observe	Mary Anning Assessment Low Stake quiz Recap Starter Retrieve and connect

Resources	ASE Vocabulary progression document
ASE planning matrices	ASE assessment exemplifications
ASE Working Scientifically progression document	