Year: 1 Term: 1a Cornerstones Unit: Everyday Materials



National Curriculum Progression								
Y1	Y2	Y3	Y4	Y5		Y6		
Everyday Materials	Use of Everyday Materials	<u>Rocks</u>	States of Matter	Properties and Changes of Materials				
i <mark>. distinguish between an</mark>	i. identify and compare the	i. compare and group	i. compare and group	i. compare and				
object and the material from	suitability of a variety of	together different kinds of	materials together, according	materials on th				
which it is made	everyday materials, including	rocks on the basis of their	to whether they are solids,	including their				
<mark>ii. identify and name a variety</mark>	wood, metal, plastic, glass,	appearance and simple	liquids or gases ii. observe	transparency,				
of everyday materials,	brick, rock, paper and	physical properties	that some materials change	thermal), and i				
<mark>including wood, plastic, glass,</mark>	cardboard for particular uses	ii. describe in simple terms	state when they are heated	ii. know that so				
metal, water, and rock	ii. find out how the shapes of	how fossils are formed when	or cooled, and measure or	liquid to form a	a solution, and describe how			
<mark>iii. describe the simple</mark>	solid objects made from	things that have lived are	research the temperature at	to recover a su	bstance from a solution			
physical properties of a	some materials can be	trapped within rock	which this happens in	iii. use knowled	ge of solids, liquids and			
variety of everyday materials	changed by squashing,	iii. recognise that soils are	degrees Celsius (°C)	gases to decide	e how mixtures might be			
iv. compare and group	bending, twisting and	made from rocks and organic	iii. identify the part played by	separated, including through filtering,				
together a variety of	stretching.	matter.	evaporation and	sieving and evaporating				
everyday materials on the			condensation in the water	iv. give reasons	s, based on evidence from			
basis of their simple physical			cycle and associate the rate	comparative a	nd fair tests, for the			
properties.			of evaporation with	particular uses	of everyday materials,			
			temperature.	including metals, wood and plastic				
				v. demonstrate that dissolving, mixing and				
				changes of state are reversible changes				
				vi. explain that some changes result in the				
				tormation of new materials, and that this				
				kind of change is not usually reversible,				
				including changes associated with burning				
				and the action of acid on bicarbonate of				
				soda.				
Scientific Enquiry Skills								
Asking Questions Investigating			Gathering and Recording Data Presenting and		Presenting and Analysing Fin	dings		
asking simple questions and	recognising sobserving of	losely, using simple equipment	gathering and recording data to help in		using their observations and ideas to			
that they can be answered in d	ifferent ways 🛛 🐥 performing	simple tests	answering questions.		suggest answers to questions			
A identifying and classifying								

Key Vocabulary – Unit Specific		Key Vocabulary – Scientific Enquiry					
everyday materials – object, material, glass, plastic, fabric, wood, stone, metal – distinguish,		question - what, why, how, who, when, which					
observe, sort, group, features		equipment - metre stick, measuring tape, egg timer, hand lens, sorting circles					
physical properties - hard or soft; stretchy or stiff; rough or smooth; opaque or transparent;		measure, measurement, observe					
bendy or rigid; waterproof or not waterproof; absorbent; shiny, natural materials, human-		terproof or not waterproof; absorbent; shiny, natural materials, human-	test, instructions, prediction, method				
made materials – investigate, describe, sort group		identify, sort, group, compare, classify					
			results, information, investigate, investigation, noticing patterns				
r r			record	ecord, data, table, Venn diagram			
	Со	nceptual Learning Goals - Core Knowledge		Procedu	ıral Learning Goals - Skills		
Substantive	a.	Know that a material is what an object is made from and that everyday materials		a. Kno	w how to distinguish between an object and the material it is made from,		
Knowledge		include wood, plastic, glass, metal, water, rock, brick, paper and fabric.		inclu	uding wood, plastic, glass, metal, water, rock, brick, paper and fabric.		
	b.	ow that objects can be looked at and compared according to their material.		o. Kno	w how to observe, sort and group objects and materials based on their		
	с.	Know materials have different properties, such as hard or soft; stretchy or stiff	f;	feat	tures.		
	rough or smooth; opaque or transparent; bendy or rigid; waterproof or not			. Kno	w how to investigate and describe simple properties of materials, hard or soft;		
		waterproof; absorbent; shiny		stre	etchy or stiff; rough or smooth; opaque or transparent; bendy or rigid;		
	d.	Know that materials can be grouped according to their physical properties.		wat	erproof or not waterproof; absorbent; shiny		
	-			l. Kno	w how to group materials according to their simple physical properties.		
Disciplinary	e.	. Know that question words include what, why, how, who, when, which		e. Know how to ask simple scientific questions			
Knowledge	f.	Know that simple equipment - metre stick, measuring tape, egg timer and hand		. With support, know how to use simple equipment to measure and observe			
		lens - is used to take measurements		. With support, know how to follow a set of instructions to perform simple test			
	g.	Know that simple tests can be carried out by following a set of instructions		begin to talk about what they might do or what might happen			
	h.	. Know that objects and materials can be compared.		h. Know how to observe objects and materials to sort or group them			
	i.	Know that results are information found out from an investigation		. Kno	w how to talk about what they have done and say, with support, what they		
	j.	Know that data can be recorded and displayed as tables, pictograms, Venn		have	e found out.		
	diagrams, drawings, diagrams		j. With support, know how to gather, and record simple data using tables,				
				pict	ograms, Venn diagrams, drawings, diagrams		

Scientific Enquiries:								
Observing changes Over a Period of Time	Noticing Patterns	Grouping and Classifyir	g Things	Carrying out S Tests	imple Comparative	Finding Things Out using Secondary Sources of Information		
Best bunting investigation	Asking questions about human- made objects	Exploring natural materials - share their observations, the materials' similarities and differences, where the material comes from (ground, animal or plant) Sorting and grouping material Properties of materials Making Venn diagrams		Testing and comparing properties of materials Best bunting investigation		What is a material?		
Assessment Criteria								
Disciplinary Knowledge and Skills Substantiative Knowledge and Skills using appropriate scientific language from the national curriculum: • distinguish objects from materials, describe thei • ask their own questions about what they notice • distinguish objects from materials, describe thei • use different types of scientific enquiry to gather and record data, using simple equipment where appropriate, to answer • observing changes over time • noticing patterns • observing changes over time • grouping and classifying things • carrying out simple comparative tests • finding things out using secondary sources of information • disting things out using secondary sources of information								
 Raw, natural materials, such as sand, water, metal ores, logs or timber, wool (unspun), stone and clay Simple products made from natural materials, such as metal jewellery, wooden spoon, woollen hat, clay pot, rubber ball, leather belt, silk scarf, stone ornament and a cotton tea towel Simple but interesting objects made from human-made materials, such as ceramic ornaments; strong glass perfume bottles or vases; metal, plastic or wooden toys; synthetic fabric bags, purses or umbrellas; old electronic gadgets 			 Wide range of ob papers and cardb marbles; plastic v pillowcases, nylo pebbles; ceramic tubes Everyday materia above) Spray bottles fille Bunting materials foil, rigid plastic. 	jects made from loard; metal coin vrap, containers n tights and sati ornaments, mu ils, including gla ed with water s to test, including oilcloth, cotton	n everyday materials, s ns, foil, jewellery and c and toys; leather sho n or silk scarves; concr gs and plant pots; rub ss, plastic, wood, brick ng tissue paper, soft an fabric, nylon, newspar	such as wooden toys and utensils; cutlery; glass jars, bottles and es and belts; fabrics, such as cotton rete garden ornaments and ber balls, car mats and bike inner s, fabric, stone and metal (see		