Rocks – year 3	
Definition: Rocks - are solid and made from different combinations of minerals.	
Chemistry definition: the branch of science concerned with the substances of which matter their properties and reactions, and the use of such reactions to form new substances.	is composed, the investigation of
 POS: compare and group together different kinds of rocks on the basis of their appeara describe in simple terms how fossils are formed when things that have lived are to recognise that soils are made from rocks and organic matter 	nce and simple physical properties rapped within rock
Prior learning:	Links to other science topics:
 Know what a material is Classify materials based on their properties Group objects based on their characteristics and explain why they have chosen to group them in that particular way Explored natural rocks 	KS1 Materials – name properties of materials KS1 plants – know what soil is
Disciplinary concept: Similarities and differences – how are the rocks similar and different? Process – how are rocks formed? Changes – how are metamorphic rocks formed?	
Common misconceptions: rocks are all hard in nature rock-like, man-made substances such as concrete or brick are rocks materials which have been polished or shaped for use, such as a granite worktop, 'natural' certain found artefacts, like old bits of pottery or coins, are fossils a fossil is an actual piece of the extinct animal or plant soil and compost are the same thing. 	are not rocks as they are no longer
 Core Knowledge: Understand what a rock is – a rock is a naturally occurring material Name the three types of rocks – metamorphic, igneous and sedimentary Name properties of rocks – hard or soft, permeable and impermeable, durability Name the different types of soil – soils are made up of pieces of ground up rock w plant and animal material (organic matter) Know how fossils are formed – When plants and animals died, they fell into the se squashed by other material. Over time the dissolving animal and plant matter is response. 	which may have been mixed with eabed. They became covered and eplaced by minerals from the water.
Wider knowledge: What type of rock is in our local area and why- use website: open.edu – UK rocks by region A British fossil hunter (William Buckland) found some fossils in 1819 and in 1824 described a Mary Anning was an English fossil collector and dealer - https://www.pstt-cpd.org.uk/ext/cp Volcano Pompeii – links with the geography teaching sequence	and named them. od/dramatic-science/resources.html
 Observe rocks Classify the rocks according to simple physical properties / appearance Investigate rock types Observe soils closely. Classify soils in a range of ways based on their appearance 	
Research using secondary resources - How are fossils formed? How do fossils tell	us about the past?
 End points: To sort and compare rocks To explain the properties of rocks and why they are chosen for purpose (hard/soft durability) To explain the stages of fossil formation (A plant or animal dies in a watery environ in mud and silt, soft tissues quickly decompose leaving the hard bones or shells be over the top and hardens into rock.) To name different types of soil (clay spady leaving nearty) 	t, permeable/impermeable or nment, the plant or animal is buried shind, over time sediment builds
CPD: <u>https://www.reachoutcpd.com/courses/upper-primary/rocks-and-soils/</u>	
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