Oughterside Foundation School - Science					
Topic: RocksYear: 3Strand: Che				Strand: Chemistry	
	What should I already know?			What w	vill I know by the end of the unit?
 Soil contains The meaning That magma the earth. 	ary Anning in palaeontology and the discovery nutrients and these help plants to grow. of the word absorb . is molten rock that is formed in very hot condit aterials are used for certain purposes because of Vocabulary soak up or take in the solid rock in the ground which supports it gradually being destroyed by a natural proc	ions inside of their all the soil above	What a different types or rocks?	nt	 There are three types of rocks that are formed naturally. Igneous: When molten magma cools, igneous rocks are formed. This either cools and forms rocks under the earth's surface, or flows out of erupting volcanoes as lava and may mix with other minerals. Examples include granite and basalt. This type of rock is strong, hard-
grain	A grain of something such as sand or salt is				wearing and non-porous.
igneous imprint leaf litter magma man-made metamorphic mineral molten natural nutrients palaeontology permeable porous prehistoric preserve	of it rocks that are formed by volcanic action or a mark or outline made by the pressure of or another decaying leaves molten rock that is formed in very hot conditive earth things are created by people rocks that have had their original structure pressure and heat something that is formed naturally in rocks is Molten rock, metal, or glass has been heate high temperature and has become a hot, thi things that exist in nature and are not made substances that help plants and animals to get the study of fossils as a guide to the history if a substance is permeable, something such or gas can pass through it or soak into it. Something that is porous has many small how water and air can pass through the time in history before any information water or metage	itions inside ditions inside changed by and in the earth. d to a very ick liquid by people grow of life on Earth n as water			 Sedimentary: Sometimes, little pieces of rocks that have been weathered can be found at the bottom of lakes, seas and rivers This is called sediment. Over millions of years, layers of this sediment builds up forming sedimentary rocks. Examples include limestone and chalk. Sedimentary rocks are porous and can easily be worn down . Metamorphic: When some igneous and sedimentary rocks. Examples include limestone and chalk. Metamorphic: When some igneous and sedimentary rocks are heated and squeezed (pressured), they form metamorphic rocks. Examples include slate and marble. Metamorphic rocks are strong
pressure properties	force that you produce when you press hard the qualities or features that belong to som it recognisable				Bricks and concrete are not rocks because they are man-made.
rock	a solid mass made up of minerals. Rock form		What a	-	• Fossils are the remains of prehistoric
sediment	earth's outer layer, including cliffs and moun solid material that settles at the bottom of a ly earth and pieces of rock that have been c then left somewhere by water, ice, or wind	liquid, especial-	fossils?		 life. They are usually formed when a living thing (plant or animal) dies and the local device the second secon
soil	the substance on the surface of the earth in grow	which plants		W.	body is covered up or buried by sediment over tens of thousands of
surface	the flat top part of something or the outside	e of it		S	years.
surrounding volcano	to be present all around a mountain from which hot melted rock, gas from inside the Earth sometimes burst.			A.	• Some fossils are formed when the tough bones and teeth in animals, and the woody part of plants are preserved .
weathered	affected by the weather				 Other fossils are made from imprints in surrounding sedimentary rock such as
• Explain why ro	Investigate! Des of rocks you can find in the local environ Icks are used for different purposes based or				 surrounding sedimentary rock such as footprints or imprints from shells. Fossils tell us about the Earth and about life that existed hundreds of thousands and millions of years ago.
 Explore the dif environment. Compare differ different using Investigate wh Investigate wh Sort different t whether they b 	lifferent living things whose fossils are found ferent kinds of soils , including those you can rent types of soils by saying what is similar a scientific vocabulary. The happens when rocks are rubbed together at happens to rocks when they are in water types of rocks based on how rough or smoot have grains or crystals, how permeable they a down, how strong they are and what they I	n find in the local nd what is h they are, are, how easily	What is	s soil?	 Soil is made from pieces of rock, minerals, decaying plants and water. When rock is broken down into small grains, soil is formed. There are layers of soil: above the soil is leaf litter and recently decaying plants. as the soil becomes deeper, the rock grains become larger until bedrock is reached.

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Question 1: Match the rocks to how they are forme	Start of unit:	End of unit:					
igneous	rocks that a through h press	neat and					
metamorphic	magma or	lava cools					
sedimentary	weathered ro the bottom						

Question 2: Match the rocks to an example of them.		Start of unit:	End of unit:
igneous	granite		
metamorphic	chalk		
sedimentary	marble		

Question 3: The word metamorphic means?	Start of unit:	End of unit:
	unit.	unit.

Question 4: Which of these is not an example of a natural forming rock?	Start of unit:	End of unit:
igneous		
concrete		
sedimentary		
metamorphic		

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Question 6: Which of these words best describes a rock that absorbs water? (tick two)	Start of unit:	End of unit:
permeable		
impermeable		
porous		
waterproof		

Question 7: Fossils are usually formed in which rock?	Start of unit:	End of unit:
igneous		
concrete		
sedimentary		
metamorphic		

Question 8: Place these in order in which they happen to form a fossil.	Start of unit:	End of unit:
hard parts are turned into fossils over tens of thousands of years		
an animal dies		
hard parts were buried by sediment		
the soft parts decayed		

Question 9: Explain why bricks and concrete are not classed as natural forming rocks.	Start of unit:	End of unit:

Question 10: Describe what is happening in each layer of this soil and how soil is formed.	Start of unit:	End of unit: