	Topic: Rocks	Year: 3		Strand: Chemistry
	What should I already know?		What v	vill I know by the end of the unit?
 Soil contains The meaning That magma is 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 conditi 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 A grain of something such as sand or salt is of it rocks that are formed by volcanic action or	ons inside of their all the soil above ess a tiny hard piece intense heat	What are the different types of rocks?	 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, hardwearing and non-porous. Sedimentary:
imprint	a mark or outline made by the pressure of another	one object on		 Sometimes, little pieces of rocks that have been weathered can be
leaf litter magma man-made	decaying leaves molten rock that is formed in very hot cond the earth things are created by people rocks that have had their original structure			 found at the bottom of lakes, seas and rivers This is called sediment. Over millions of years, layers of this sediment builds up forming
metamorphic	pressure and heat	changed by		sedimentary rocks.
mineral	something that is formed naturally in rocks			 Examples include limestone and chalk.
molten	Molten rock, metal, or glass has been heate high temperature and has become a hot, th			Sedimentary rocks are porous and
natural	things that exist in nature and are not made	, , , ,		can easily be worn down .
nutrients palaeontology	substances that help plants and animals to get the study of fossils as a guide to the history			Metamorphic:
permeable	if a substance is permeable, something suc or gas can pass through it or soak into it.	h as water		When some igneous and sedimen- tary rocks are heated and
porous	Something that is porous has many small ho water and air can pass through	oles in it, which		squeezed (pressured), they form metamorphic rocks.
prehistoric	the time in history before any information v	vas written down		• Examples include slate and marble.
preserve pressure	to protect from decay force that you produce when you press hard	on something		Metamorphic rocks are strong
properties	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 earth's outer layer, including cliffs and moun		What are fossils?	• Fossils are the remains of prehistoric life.
sediment	solid material that settles at the bottom of a ly earth and pieces of rock that have been o then left somewhere by water, ice, or wind			• They are usually formed when a living thing (plant or animal) dies and the
soil	the substance on the surface of the earth in grow	which plants	S. C.	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		years.
surrounding volcano	to be present all around a mountain from which hot melted rock, gat from inside the Earth sometimes burst.	s , steam, and ash	1000	 Some fossils are formed when the tough bones and teeth in animals, and the woody part of plants are preceived
weathered	affected by the weather			 woody part of plants are preserved . Other fossils are made from imprints in
	Investigate!			surrounding sedimentary rock such as footprints or imprints from shells.
	bes of rocks you can find in the local environ cks are used for different purposes based on			 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 whithin the structure of t	ifferent living things whose fossils are found ferent kinds of soils , including those you car rent types of soils by saying what is similar ar scientific vocabulary. at 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 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 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 formed	l.		Start of unit:	End of unit:
igneous	rocks that a through h press	ieat and sure		
metamorphic sedimentary	magma or weathered ro the bottom	ocks settle at		

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:

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

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