	Calcot Scł	nools Knowledge organiser—Scien	ice
Topic: Rocks	Phase: Year 3		Strand: Chemistry
Prior knowledge from previous year groups:	Vocabulary:		Diagrams:
Soil contains nutrients and these help plants to grow The meaning of the word absorb	absorb bedrock decaying	soak up or take in the solid rock in the ground which supports all the soil above it gradually being destroyed by a natural process	Sedimentary Igneous What are forsils?
That magma is molten rock that is formed in very hot conditions inside the earth	grain igneous imprint	A grain of something such as sand or salt is a tiny hard piece of it rocks that are formed by volcanic action or intense heat a mark or outline made by the pressure of one object on another	
What will the children know by the end of the unit?	leaf litter magma man-made metamorphic mineral	decaying leaves molten rock that is formed in very hot conditions inside the earth things are created by people rocks that have had their original structure changed by pressure and heat something that is formed naturally in rocks and in the earth.	
There are three types of rock formed naturally: When molten magma cools, igneous rocks are formed This either cools and forms rocks under the earth's surface or flows out	molten natural nutrients palaeontology	Molten rock, metal, or glass has been heated to a very high temperature and has become a hot, thick liquid things that exist in nature and are not made by people substances that help plants and animals to grow the study of fossils as a guide to the history of life on Earth	
Examples include granite and basalt. This type of rock is strong, hard and non-porus.	permeable	or gas can pass through it or soak into it. Something that is porous has many small holes in it, which water and air can pass through	- Investigate! - Explore the types of rocks you can find in the local environment.
Sedimentary: Sometimes little pieces of rock that have weathered can be found at the sottom of lakes, seas and rivers. This is called sediment.	prehistoric preserve pressure	the time in history before any information was written down to protect from decay force that you produce when you press hard on something the qualities or features that belong to something and make	-Explain why rocks are used for different purposes based on their propertie -Research the different living things whose fossils are found.
Over millions of years, this sediment builds up forming sedimentary pocks. Examples include limestone and chalk.	rock	it recognisable a solid mass made up of minerals . Rock forms much of the earth's outer layer, including cliffs and mountains solid material that settles at the bottom of a liquid, especial-	 environment. -Compare different types of soils by saying what is similar and what is different using scientific vocabulary.
edimentary rocks are porous and can easily be worn down. Netamorphic:	soil	Iy earth and pieces of rock that have been carried along and then left somewhere by water, ice, or wind the substance on the surface of the earth in which plants grow	 -Investigate what happens when rocks are rubbed together. -Investigate what happens to rocks when they are in water.
Vhen some igneous ad sedimentary rocks are heated and squeezed pressured), they form metamorphic rock. xamples include slate and marble.	surface surrounding volcano	the flat top part of something or the outside of it to be present all around a mountain from which hot melted rock, gas , steam, and ash from incide the Seath comptinger burst	- Sort different types of rocks based on how rough or smooth they are, whether they have grains or crystals, how permeable they are, how easily they can break down, how strong they are and what they look like.
Aetamorphic rocks are strong. Bricks and concrete are not rocks as they are man made.	weathered	affected by the weather	