Rocks and Soils: Year 3 Knowledge Mat

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Subject Specific Vocabulary		Rocks	Exciting Books
Layers		and Soil	Primary Science
Rock	Solid mineral material forming part of the surface of the earth and other similar		Rocks and soil – real size science.
	planets.		Exploring soils and
Stone	Hard solid non metallic mineral mater of which rock is made	Facts about rocks and soils	rocks.
Pebble	A small stone made smooth and round by the action of water or sand	Rocks are made of one or more minerals	<u>Useful websites:</u>
Boulder	Large rock typically one that has been worn smooth by erosion	Granite rocks can be very old, some granite in Australia is believed to be more than 4 billion years old.	
Fossil	Remains or impression of a prehistoric plant or animals embedded in rock.	There are three main classifications of rocks, based on the way the rock was formed: Sedimentary, metamorphic and igneous.	https://www.tw inkl.co.uk/resou
Crystals	They are special kind of solid materials where the molecules fit together in a repeating	Soil is at the bottom of the food chain, yet it is the cornerstone of life on earth.	rces/keystage2-
	pattern.	Igneous rocks are volcanic and form from molten material	ks2/ks2-science
Sandston e	Sedimentary rocks consisting of sand grains cemented together	Soil is formed of fine rock particles mixed with air, water and particles form dead plant and animals matter.	https://www.ou
Slate	A fine grained grey, green or bluish-purple metamorphic rock easily split into smooth flat plates.		tstandingscienc e.co.uk/
Texture	The feel, appearance or consistency of a		

surface or a substance.

Year 3 Knowledge Organiser Rocks and Soils

Skills

- Compare and group together different kind of rocks on the basis of their appearance and simple physical properties.
- Describe in simple term how fossils are formed when things that have lived are trapped with rocks
- Recognise that soils are made form rocks and organic matter

Knowledge

- To know that how and why rocks might have changed over time
- To know that there are different types of rocks and be able to identify them under a microscope to see whether they have grains or crystals and to see if they have fossils in them.
- To have the knowledge to be able to discuss the different kinds of living things whose fossils are found in sedimentary
 rock and explore hoe fossils are formed
- Pupils to know different soils and identify the similarities and differences between them.
- To know what happens to rocks when they are rubbed together and what changes when they are in water.