

LKS2 Science Knowledge and Skills Organiser Caveman to Iron Warrior

Key Knowledge and Skills		Key Vocabulary	
Different kinds of rocks	<u>Solids, liquids and gases</u>	Word	Definition
There are three main types of rocks, which are classified by how they are formed: sedimentary, igneous and metamorphic.	There are three different states of matter: Solids, liquids and gases. Different materials have different states of matter at different temperatures. Solid Solid Figid fixed shape fixed volume cannot be squashed There are three different states of matter: Solid Solid Fixed shape fixed volume cannot be squashed	igneous	Rock that has formed from cooled molten lava from the earth
		metamorphic	Rock that has formed under pressure
		sedimentary	Rock formed from crushed rock and living organisms
Limestone Slate Pumice Rocks have different appearances and properties. We will be		permeability	Allowing water to pass through
performing different tests on the properties: Permeability, density and durability. Depending on their properties, different rocks have different uses.		density	The quality of how dense or compact an object it-dense objects sink in water.
Slate is suitable for a roof because it is not permeable; chalk is good to draw with because it is soft. When water changes into a solid, we call this freezing; when ice turns into a liquid, this is melting. When water heats and turns into a gas, this is evaporation; when water cools and turns from a solid to a liquid this is called condensation. These processes can be seen in the water cycle: The Water Cycle	durability	Durable rocks are very strong and do not wear easily e.g. granite;	
	cools and turns from a solid to a liquid this is called condensation . These processes can be seen in the water cycle:	fossils	These are preserved skeletons and imprints of living creatures and plants
		solid	When the atoms are held in a fixed, rigid shape and the bonds are strong/
<u>Soils</u> Soil is formed from pieces of rock and organic matter. There are different kinds of soil and different layers. Fossils are preserved		liquid	When the atoms are held in a non fixed shape, though they have a fixed volume.
skeletons found in the ground.		gas	When atoms have a little or no bons and therefore have no fixed shape or volume.
		evaporation	The change of states when heating from a liquid to a gas
	Skills: To plan tests to answer scientific questions, to make predictions, to record findings in different ways.	melting	When a solids is heated and becomes a liquid
		freezing	When a liquid is cooled and becomes a solid.
		Condensing	When cooled a gas becomes a liquid.
Famous Scientists			
<u>William Smith and Rev Frederick Kendeall.</u> These were recognised as the first geologists in Scarborough They studied rock formations in the country.	<u>Mary Anning</u> She was famous for her studies of fossils. She was a pioneer of her time.	<u>John Dalton 1766 - 1844</u> In 1803 he proposed that matter is made up of atoms. When the bonds are broken, states of matter change.	