## Home-School Learning Collaboration – KS3 Science



<b>Topics in this cycle:</b> Earth's resources	Taught: Summer 1	Year Group: 8
Key knowledge/concepts to be learnt ('Tell me about')		Websites/blogs/YouTube links and further reading to deepen and consolidate learning
<ul> <li>Suggest factors to consider</li> <li>What is recycling? State why certain natural re Explain why recycling some Describe how the Earth's re</li> <li>What is the structure of the I Name and label the three r Compare the rock layers of</li> <li>What are sedimentary rock Describe how sedimentary Explain why a sedimentary</li> <li>What are igneous rocks? Describe how igneous rocks for Explain why igneous rocks for What are igneous and meta Describe how metamorphic</li> </ul>	ng metals. isources are extracted. tion method for a metal, given data about reactivity. when extracting metals. esources will run out. e materials is particularly important. isources are recycled. Earth? Tock layers of the Earth. if the Earth. s? rocks are formed. rock has a particular property based on how it was formed. is are formed. have particular properties based on how they were formed. manorphic rocks?	Notes:         Extracting metals         Extracting Metals (youtube.com)         Recycling         Recycling - YouTube         Structure of the Earth         Structure of the Earth - The Earth and atmosphere - KS3 Chemistry - BBC         Bitesize - BBC Bitesize         Sedimentary rocks, igneous and metamorphic rocks         Rock types - The Earth and atmosphere - KS3 Chemistry - BBC Bitesize - BBC         Bitesize         The rock cycle         The rock cycle - The Earth and atmosphere - KS3 Chemistry - BBC Bitesize - BBC         Bitesize         Videos:         Structure of the Earth         Structure of the Earth
	convert sedimentary, igneous and metamorphic rocks. am to explain the processes of rock formation.	Sedimentary rocks, igneous and metamorphic rocks <u>Types of rocks   Igneous, sedimentary &amp; metamorphic rocks   Educational</u> <u>science lesson - YouTube</u>
		The rock cycle <u>The rock cycle - YouTube</u>

## ACADEMY

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Key Vocabulary and Definitions To Be Learnt		What Will The Assessment Look Like?	
Ore	A naturally occurring rock that contains enough of a mineral to make it worth getting the mineral- and then the metal it includes- out of the rock.	Extended writing – A company has discovered a new	
Natural resources	Minerals from the Earth, its atmosphere, and the oceans, which act as raw materials for making a variety of products.	source of Iron ore. Suggest factors to take into account when deciding whether or not to extract the metal from its ore.	
Extraction	Separation of a metal from a metal compound.	End of Unit test: 25 minutes/25 marks	
Minerals	Chemicals that rocks are made from	Short answer questions	
Electrolysis	Using electricity to split up a compound into its elements.	<ul><li>Extended writing</li><li>3 marks for SPAG</li></ul>	
Weathering	The breaking down of rock into smaller pieces by physical, chemical or biological processes	Family Learning Opportunities	
Sediments	Pieces of rock that have broken away from their original rock	Tips to get your child to recycle – The Waste	
Erosion	The breaking of a rock into sediments and their movement away from the original rock	Management & Recycling Blog (forgerecycling.co.uk)	
Recycling	Collecting and processing a material so that it can be used again.	Create your own volcano using bicarbonate of soda, vinegar and food colouring.	
Deposition	The settling of sediments that have moved away from their original rock	How to make a volcano   Natural History Museum	
Strata	Layers of sedimentary rock	(nhm.ac.uk)	
Durable	A property of a material meaning it is difficult to damage	Interactive rock cycle including rock formation parent and child learning activity with quizzes.	
Magma	Liquid rock below the Earth's surface	<u>Geological Society - The Rock Cycle (KS3) (geolsoc.org.uk)</u>	
Rock cycle	Sequence of processes where rocks change from one type to another, over a timescale of millions of years		
Uplift	Uplift happens when huge forces from inside the Earth push rocks upwards	Devise a quiz on the rock cycle and test your family.	

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