

Subject	Ye	ar	Term
Science	8		2
	То	pic	
8C2 Chemical reactions and the Earth			
Content (Intent)			
Prior Learning (Topic), KS2 curriculum Y3 Rocks, KS3 8C1 (term one) Displacement			
reactions.			
 The Earth's Structure and atmosphere The Rock cycle The Earth as a resource The Carbon Cycle Chemical reactions Combustion and oxidation reactions Thermal decomposition Displacement reactions pH scale and indicators Reaction of acids Catalysts Future Learning (Topic) Y9 C7 Organic chemistry, C10, Using resources, Y10 C6 Rate and extent of chemical change, Y11 C4 Chemical changes, Y12 2.1.4 Acids, Y13 5.1.3 Acids, 			
bases and buffers			
How will knowledge and skills	be taught?	HOW WIII YOUr	understanding be assessed & act)
 Demos: Model Earth, wax volcano, ph methyl orange indicator, apparatus to CO₂ produced in combustion Practical work: Speed of cooling vs size of crystals Examples of weathering Examples of chemical reactions (b nitrate + potassium iodide, Mg an Rusting in different environments Thermal decomposition of CaCO₃ Identifying Unknown metal using reactions pH testing of household and lab so Neutralisation of NaOH and HCl Reactions of metals with acid Catalytic breakdown of H₂O₂ using O2 gas produced. 	enolphthalein ad show H ₂ O and ourning wood, lead d CaCO ₃ + HCl) displacement olutions g MnO ₄ , test for	- 2 x standard Written feedba -1 x end of top feedback to cla	homeworks (Level given. ack. Response expected.) bic test (Level given. Verbal ass and individuals.)
Written Notes on book. Research on the rock cycle.			

How can parents help at home?				
Look at the topic specific resources on the VLE Use appropriate youtube channels: cognito, primrosekitten, khan academy, freesciencelessons. Take an interest! Ask your children what they have learnt and be curious about their learning.				
Helpful further reading/discussion				
Vocabulary Lists crust mantle core atmosphere weathering erosion displacement combustion acid alkali indicator igneous neutralisation sedimentary reactivity series metamorphic catalyst	Careers Links Geologist Environmental scientist Farming			
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