

Subject	Year	Term
Science	11	2
Topic		
11C3 Acids, Neutralisation and calculations		
Content (Intent)		
<b>Prior Learning (Topic)</b> 7C1 Physical changes & the particle model (lessons 10-12) 7C2 Atoms, Elements & Mixtures ( lessons 1,2&3) 8C1 - properties of elements(lesson 4), 8C2 Chemical reactions and the Earth(lessons 10-12) Y10 rates and concentration of solutions, Y10 metals		
pH scale and neutralisation acids reaction with metals salt production Relative Atomic Mass/Relative Formula Mass Mass and reactions	Moles Amounts of substances in equations Concentration of solutions Mass changes when there is a gas	
<b>Future Learning (Topic)</b> A level reactions of acids, moles calculations		
How will knowledge and skills be taught? (Implementation)	How will your understanding be assessed & recorded (Impact)	
Demos Conservation of mass in a reaction ( $KI + Pb(NO_3)_2$ )  Practical work Reacting acids and alkalis/titration reactions Reacting acids and metals Reacting acids and bases Required practical – preparing copper sulphate Changes in mass when a gas is produced Making an oral rehydration drink  Written Determining REDOX reactions Word equations for reactions of acids  Calculations pH values after dilutions RAM and RFM values Moles Concentration of solutions	- 2 x standard homeworks (Level given. Written feedback. Response expected.)  -Acid equations: in exercise book. Marked and feedback given. -Moles calculations : in exercise book. Marked and feedback given.	
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		

<b>Reading</b>	<b>Vocabulary Lists</b>	<b>Careers Links</b>
	Acid Alkali Neutralisation Indicator Redox Salt Relative atomic mass Relative formula mass Conservation Moles Ratios Concentration	Environmental scientist Hairdressing Lab technician Research scientist