Combined Science Chemistry GCSE Course Guide

	Year 10	Year 11
End	CC01: Kinetic theory : paper 1	Both papers: CC01, CC02, CC04, CC05, CC06, CC07,
of	 The key concepts of particle theory 	CC09
year	building on C2 (Particles) in KS3	Paper 1 only: CC03, CC08, CC10, CC11, CC13
9	CC02: Atomic structure: both papers	Paper 2 only: CC12, CC14, CC15, CC16, CC17
	- Atomic structure builds on C2 (Particles)	
	in KS3 and gives the basis for all reactions	
Т	CC03: Separating mixtures paper 1	CC11: Electrolysis Paper 1
е	- Builds on C4 (separating mixtures) from	- Builds on CC10 with purifying metals
r	KS3 and allows students to trial safe	- More complex chemistry with time to revise it
m	practicals	- Applying chemical theory to real life problems
	<u>CC04</u> : Periodic table both papers	- Modern issue of planet sustainability
ο	- Builds on from C2 (Particles) in KS3 and	CC12: Rates of reactions Paper 2
n	C6 (Earth Science) increasing the	- Lots of practical science
e	understanding of atoms	- Uses their knowledge of reactions from year 10
-	<u>CC05</u> : Ionic bonding both papers	to measure rate
	- How compounds made from metals and	<u>CC13:</u> Reversible reactions and equilibria <i>Paper 1</i>
	non metals bond	- How to manipulate reactions to make the
	<u>CC06</u> : Covalent bonding both papers	greatest profit or yield
	- How non-metals bond	greatest pront of yield
	<u>CC07:</u> Identifying substances both papers	
	- How metals bond	
	 How to identify unknown substances 	
	using their properties	
Т	<u>CC08:</u> Acids paper 1	CC14: The periodic table Paper 2
e	- Commonly examined with lots of	- Expanding on CC04 with experiments and
r	experiments	demonstrations
m	- Gives equation practise	 Making predictions of reactions using chemical
	<u>CC09</u> : Calculations in Chemistry both papers	understanding
t	- These sums use ratios and basic maths to	<u>CC15:</u> Energy changes in reactions <i>Paper 2</i>
w	work out quantities from reactions	- Practical based and quick
0	 Now students have done some practicals 	- Using maths skills
Ŭ	and understand equations they can start	<u>CC16</u> : Fuels Paper 2
	to embed the required maths skills	- Modern issue of planet sustainability
		 Builds into CC17 with climate change and links
		with geography
Т	CC10: Obtaining and using metals Paper 1	CC17: Earth and atmosphere science Paper 2
	- Builds on structure and bonding	- Links from CC16 and KS3 units on energy
e	 Application of chemistry to careers 	 Modern issue of planet sustainability
r	 Application of chemistry to careers Some more practical work 	
m	 Lots of equation practise – brings CC01, 	
t	- Lots of equation practise – brings CCO1, 03, 05 and 09 together	
	03, 03 and 03 together	
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