

Combined Science Chemistry GCSE Course Guide.

	Year 10	Year 11
E n d o f y e a r 9	<p><u>CC01: Kinetic theory (examined on P3)</u></p> <ul style="list-style-type: none"> The key concepts of particle theory building on C2(Particles) in KS3 <p><u>CC03 Atomic structure (examined on P3 & P4)</u></p> <ul style="list-style-type: none"> Atomic structure builds on C2(Particles) in KS3 and gives the basis for all reactions 	
T e r m O n e	<p><u>CC02: Separating mixtures (examined on P3)</u></p> <ul style="list-style-type: none"> Builds on C4(separating mixtures) from KS3 and allows students to trial simple practicals <p><u>CC04: The Periodic Table (examined on P3 & P4)</u></p> <ul style="list-style-type: none"> Builds on from C2 (Particles, atoms, elements and compounds) and C6 C6(Rocks) from KS3 increasing understanding of atoms <p><u>CC05 Ionic bonding (examined on P3 & P4)</u></p> <ul style="list-style-type: none"> How compounds containing metals bond <p><u>CC06 Covalent bonding (examined on P3 & P4)</u></p> <ul style="list-style-type: none"> How non-metals bond <p><u>CC07 Identifying substances (examined on P3 & P4)</u></p> <ul style="list-style-type: none"> Pulls together bonding and how that affects the properties of a substance 	<p><u>CC11: Obtaining metals (examined on P3)</u></p> <ul style="list-style-type: none"> Builds on C6 (rocks) from KS3 Applying chemical theory to real life problems Modern issue of planet sustainability <p><u>CC12: Reversible reactions (examined on P3)</u></p> <ul style="list-style-type: none"> How to manipulate reactions in order to make the greatest profit or yield Relates to rate of reaction <p><u>CC13: Periodic Table (examined on P4)</u></p> <ul style="list-style-type: none"> Expanding CC04 with interesting experiments Begin to apply knowledge from year 10 to make predictions of reactions.
T e r m T w o	<p><u>CC08: Acids (examined on P3)</u></p> <ul style="list-style-type: none"> Commonly examined with lots of experiments Gives equation practice <p><u>CC09: Calculations (examined on P3 & P4)</u></p> <ul style="list-style-type: none"> These sums use ratios and basic maths to work out quantities from reactions. Now students have done some practicals and understand equations they can start to embed the required maths skills 	<p><u>CC14 Rates of Reaction (examined on P4)</u></p> <ul style="list-style-type: none"> More experimental work and also an opportunity to practise maths and graphs <p><u>CC15: Heat energy (examined on P4)</u></p> <ul style="list-style-type: none"> Practical based and quick again using maths Closely relates to reversible reactions and rates of reaction <p><u>CC16: Fuels (examined on P4)</u></p> <ul style="list-style-type: none"> Modern issue of planet sustainability Builds into CC17 with climate change and links with geography
T e r m T h r e e	<p><u>CC10: Electrolysis (examined on P3)</u></p> <ul style="list-style-type: none"> Builds on structure and bonding Some more practical work and also links to physics electricity Lots of equation practice 	<p><u>CC17: Earth and atmospheric science (examined on P4)</u></p> <ul style="list-style-type: none"> Links from CC16 and KS3 units on energy Modern issue of planet sustainability

The Combined Science Chemistry examinations have 2 papers, P3 and P4.