Key Stage 4 Subject Overview: GCSE CHEMISTRY

Course Information: The course offers the chance to gain understanding atomic structure and the periodic table, bonding, structure and the properties of matter, qualitative chemistry, chemical changes and energy changes.

Course Structure:

	CHEMISTRY PAPER 1	CHEMIISTRY PAPER 2
What is assessed	Topics 1-5 Atomic structure and the periodic table, bonding, structure and the proper-	Topics 6-10 The rate and extent of chemical change, organic chemistry, chemical analy-
Course weighting	**50% (1hour 45 minutes) - 100 marks** Written exam—multiple choice, structured, closed short answer and open responses.	**50% (1hour 45 minutes) - 100 marks** Written exam—multiple choice, structured, closed short answer and open responses.

Key Stage 4 Timeline

Year 9			Y ear 10			Year 11		
Autumn	Spring	Summer	Autumn	Spring	Summer	Autumn	Spring	SUMMER
	Atomic structure **Required experiment**	Bonding structure and properties of matter, Quantitative chemistry **Required experiment**	Chemical changes, Energy changes **REVISION** Chemistry paper 1	Rate of chemical reactions Organic chemistry **Required experi-**	Chemical analysis Chemistry of the atmosphere **Required experi-**	Using resources **Required experiments**	**REVISION**	**GCSE EXAMS**

8	6	4
Apply content knowledge to a range of events . Analyse data to draw conclusion . Evaluate arguments and justify own opinion based on scientific evidence . Recall and rearrange equations to perform calculations and use answers from calculations to make recommendations . Make recommendations based on scientific evidence . Assess the limitation of scientific evidence. Apply practical skills to examination questions.	Applying knowledge from each topic to everyday events. Plan experiments to investigate scientific ideas. Compare results and processes. Interpret models and evidence to show how scientific ideas have changed over time. Recall and rearrange equations to perform calculations. Apply practical skills to examination question s.	Explain all the concepts above. Carry out investigations to investigate hypothesis. Interpret graphs and tables. Carry out calculations using data sheet Make and interpret models to show scientific ideas. Recall and use equations. Recall practical skills in examinations.