Subject	Chemistry  Interpretation of National Curriculum into Year group Endpoints		
Year	Term 1	Term 2	Term 3
13	Students will desribe and explain the concepts of:  Equilibrium and pH  The largely qualitative treatment of equilibria encountered in Year 12 is developed within a quantitative and graphical context.  This section also allows learners to develop practical quantitative techniques involved in the determination pH.  There are many opportunities for developing mathematical skills, including use of logarithms and exponents, when studying the content of this section and when carrying out quantitative practical work.  Energy  Born-Haber cycles are used as a theoretical model to illustrate the energy changes associated with ionic bonding.  Entropy and free energy are then introduced as concepts used to predict quantitatively the feasibility of chemical change.  Aromatic compounds, carbonyls and acids  Extends the range of functional groups encountered in year 12.  Aromatic compounds are introduced, including the central role of delocalisation within the chemistry of arenes and phenols.  Directing groups are also introduced, including their importance to organic synthesis. The important carbonyl compounds, aldehydes and ketones, are then studied. Finally, carboxylic acids and their related functional groups, acyl chlorides and esters, are studied. The importance of acyl chlorides in organic synthesis is emphasised.	reactions. The colour changes and observations in these reactions increase the toolkit of qualitative inorganic tests for identifying unknown ionic compounds.  Nitrogen compounds, polymers and synthesis	Students will take the three exams which make up the assessment for A-Level Chemistry.