

Year 12 Chemistry Curriculum Map						
HalfTerm	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Big Themes</b>	<b>Organic-</b> alkanes  <b>Inorganic -</b> Foundation Chemistry Periodic tables and energy - I	<b>Organic-</b> alkenes  <b>Inorganic -</b> Electrons and bonding Shapes of molecules; Enthalpy	<b>Organic-</b> alcohols and haloalkanes  <b>Inorganic -</b> Shapes of molecules 2 - Intra and Intermolecular bonds Part I	<b>Organic-</b> practical skills, organic synthesis  <b>Inorganic -</b> Intra and Intermolecular bonds Part 2; Reactivity trends; Acids and Redox; Reaction rates and equilibrium	<b>Organic-</b> mass practical skills and spectroscopy  <b>Inorganic -</b> Reaction rates and equilibrium part 2	<b>Organic-</b> spectroscopy and revision  <b>Inorganic</b> Spectroscopy Part 2 A2
<b>Knowledge and skills covered</b>	<u><b>Organic</b></u> nomenclature representing formulae isomerism reaction mechanisms properties of alkanes  <u><b>Inorganic</b></u>  Atoms Ions and compounds Amounts of substances. Periodicity	<u><b>Organic</b></u> nomenclature representing formulae stereoisomerism reaction mechanisms properties of alkenes  <u><b>Inorganic</b></u> Electron structure Ionic, Covalent bonding and structure Shapes of molecules and ions Measuring enthalpy changes Bond enthalpies Hess' law and enthalpy cycles  <b>PAGs</b>	<u><b>Organic</b></u> nomenclature representing formulae reaction mechanisms properties of alcohols  <u><b>Inorganic</b></u> Electronegativity and polarity Intermolecular forces Hydrogen bond  <b>Mocks</b>	<u><b>Organic</b></u> synthetic routes Practical skills (PAGS)  <u><b>Inorganic</b></u> Group 2 The halogens Qualitative analysis Acids and Redox Reaction rates Catalysts Bol	<u><b>Organic</b></u> Mass spectrometry IR spectroscopy  <u><b>Inorganic</b></u> Boltzmann distribution Dynamic and Le Chateliers equilibrium constant	<b>Revision</b>

Knowledge organisers and more detailed topic resources can be found on all student Google Classrooms



**The Charter School**  
East Dulwich