مدرسة الكويت الانجليزية
KUWAIT ENGLISH SCHOOL

Key Stage 4: Curriculum Information for Year 10
(Subject to change)

Year	Autumn Term		Spring Term		Summer Term
10	**Atomic Structure** Atoms and elements Isotopes & radioactivity Electronic structure and configuration **Bonding** Ions Ionic bonding Ionic compounds and their properties Covalent bonding Covalent compounds and their properties.	**Electrolysis** Conductors & insulators The principles of electrolysis The reactions at the electrodes The electrolysis of brine Refining Copper Electroplating **Revision for the end of term examination.**	**Organic Chemistry** Petroleum: a fossil fuel Refining petroleum Cracking hydrocarbons Families of organic compounds: Alkanes Alkenes Alcohols Carboxylic acids Esterification	**Polymerisation** Addition polymerisation Condensation polymerisation Making use of synthetic polymers Plastics and recycling Natural polymers	**Quantitative Chemistry** The mole Calculations from equations Reactions involving gases Finding the concentration of a solution Empirical and molecular formulae Finding percentage yield and purity **Revision for the end of year examination.**

Key Stage 4: Curriculum Information for Year 11

Year	Autumn Term		Spring Term		Summer Term
11	**Metals** Metallic structure and alloys Comparing metals for reactivity Metals in competition The reactivity series Metals in the Earth's crust Extracting metals from their ores Making steel Electrochemical cells	**Rates of Reaction** Measuring the rate of a reaction Changing the rate of a reaction Explaining rates Catalysis Photochemical reactions Separation techniques revision. **Revision for the Mock IGCSE examination.**	**Energetics** Energy changes in reactions Explaining energy changes Energy from fuels **Equilibria** Reversible reactions Shifting equilibrium	**Industrial Processes** The Haber Process The Contact Process Sulfur and sulfuric acid Making fertilisers Carbon and the carbon cycle Greenhouse gases and global warming	**Air, Water and Carbonates** Composition of air Making use of air Limestone and its uses **Revision for the IGCSE examination.**