Chemistry combined science and separate chemistry (*bold is chemistry only) Year: 11 In year 11 pupils have 5 lessons of chemistry every 2 weeks. They follow this sequence of lessons: Half term 3 Half term 1 Half term 1 & 2 Half term 2 & 3 Half term 3 & 4 Hvdrocarbons The atmosphere Sustainable development The rate and Chemical analysis extent of chemical change Measuring rates Crude oil, Pure substances Gases in the Resources and sustainable Collision theory hydrocarbons and atmosphere and early development **Formulations** and surface area Chromatography atmosphere alkanes Potable water Required practical How oxygen increased Potable water required The effect of Fractional distillation temperature (HT) chromatography and carbon dioxide practical The effect of Properties of Test for gases decreased Waste water treatment Greenhouse gases concentration and hydrocarbons Flames tests Metal extraction (HT) Combustion Metal hydroxides Human activities and Life cycle assessment pressure Cracking and alkenes climate change Reducing the use of The effect of Tests for anions catalysts Structure and Required practicals Carbon footprint resources Required practical formula of alkenes reduction and limitations testing ionic compounds Corrosion Instrumental methods Atmospheric pollutants rates of reaction Reactions of Allovs Reversible Flame emission **Ceramics, polymers and** alkenes from fuel reactions and Alcohols Properties of composites spectroscopy energy changes Carboxvlic acids atmospheric pollutants **Haber process NPK fertlisers** Equilibrium Additional Changing polymerisation Condensing concentrations polymerisation and equilibrium Changing Amino acids temperature and DNA equilibrium Changing pressure and equilibrium

Ludus Admirandus