	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
12	Topic 1 Introduction to organic chemistry Alkanes Topic 2 Atomic Structure Amount of substance	Topic 1 Halogenoalkanes Bonding Topic 2 Required practical – 1a Required practical – 1b Energetics	Topic 1 Kinetics Required practical 3 Alkenes Topic 2 Required practical 2 Equilibria	Topic 1 Alcohol Required practical 5 Topic 2 Oxidation, reduction and redox reactions Periodicity	Topic 1 Required practical 6 Organic analysis Group 7 Required practical 4 Topic 2 Group 2 Group 7 Required practical 4	Revision
13	Topic 1 Nomenclature and isomerism Compound containing the carbonyl group Required practical 10a & 10b Topic 2 Thermodynamics Kinetics Required practical 7a & 7b Equilibrium constant Kp	Topic 1 Required practical 10a & 10b Aromatic chemistry Topic 2 Electrode potentials and electrochemical cells Required practical 8 Acids, bases and buffers Required practical 9 Periodicity The transition metals	Mocks Topic 1 Amines Topic 2 Polymerisation Amino acids, proteins and DNA	Topic 1 Organic synthesis and analysis Structure determinations Topic 2 Chromatography – required practical 12 Reactions of inorganic compounds in aqueous solutions Required practical 11	Revision and formal examinations	