Edexcel A-Level Chemistry Revision Courses

EACH COURSE IS COVERED IN 1 DAY

Course 1 – Atomic Structure, The Periodic Table and The Mole

Atomic structure
Electronic configurations & Ionisations Energies
Bonding, Intermolecular Forces, structure and properties
The Periodic Table & Periodicity
Group 2 & Group 7
Redox
The Mole, amount of substance & Empirical formulae

Course 2 – Basic Organic Chemistry and Basic Organic Analysis

Basic organic chemistry

Alkanes, fractional distillation & refining

Alkenes and addition polymers

Halogenoalkanes

Alcohols

Basic organic analysis – Mass spectroscopy and IR Spectroscopy

Course 3 – Physical Chemistry

Energetics
Equilibria, Le Chatelier's Principle and K _c Expressions
Kinetics (Rates of Reaction)
The Ideal Gas Equation (PV=nRT)

Course 4 – Advanced Organic Chemistry and Advanced Organic Analysis

Aldehydes and Ketones
Oxidising and Reducing Agents in organic chemistry
Carboxylic acids, acyl chlorides and esters
Benzene and Aromatic chemistry
Polymers
Optical Isomerism and Chirality
Amines, amino acids & proteins
Advanced Organic synthesis
Advanced organic analysis – NMR spectroscopy and Chromatography

Course 5 – Advanced Physical Chemistry

Rate Equations, Rate constants, Arrhenius and Activation Energies

Acids, Bases, pH and Buffers

Thermodynamics – Born Haber Cycles, Entropy & Free Energy

Course 6 – Electrochemistry, Transition Elements and Aqueous Chemistry

Transition Elements

Electrode Potentials and Electrochemistry/Cells

Reactions of ions in aqueous solution