

Year 13

End of year 12 exam result:

periodicity

Physical properties of period 3 elements

Mass spectrometry

Trends in properties

Required Practical 4

Organic analysis

Group 7

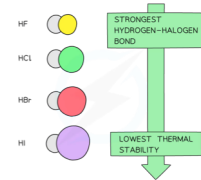


Infrared spectroscopy

NMR

Required Practical 6

Uses of chlorine and chlorate (I)



Trends and properties

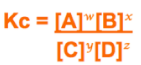
Group 2

Addition polymerisation

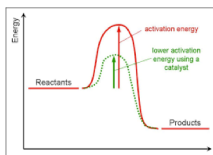
Structure and bonding

Alkenes

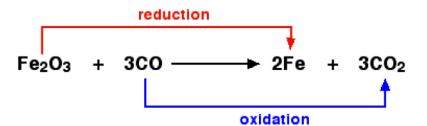
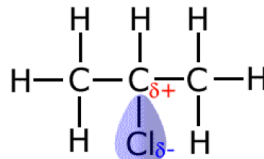
Redox reactions



Equilibria,  $K_c$  &  $K_p$



Addition reactions



Linear exam result:

Nucleophilic substitution

Ozone depletion

Alcohols

Halogenoalkanes



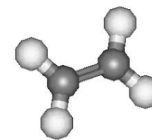
Oxidation

Required Practical 5

Alcohol production



Elimination



Free radical substitution

Reaction mechanisms

cracking

Introduction to organic chemistry and alkanes

Isomerism

Required Practical 3

Catalysts

Collision theory

Maxwell-Boltzmann distribution

calorimetry

Required Practical 2

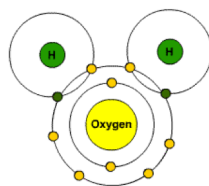
Kinetics

Energetics

Nomenclature

The mole and the Avogadro constant

Empirical and molecular formula



Enthalpy change

Hess's law

Relative atomic mass and relative molecular mass

Covalent and dative bonding

Mass number & isotopes

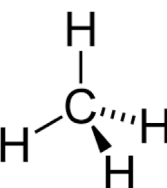
The ideal gas equation

Amount of substance

Bonding

Atomic structure

Year 12



17 35.453  
**Cl**  
Chlorine  
[Ne] 3s<sup>2</sup>3p<sup>5</sup>  
Halogens

Required Practical 1

Shapes of simple molecules

Ionic bonding

Metallic bonding

Electron configuration

Fundamental particles

