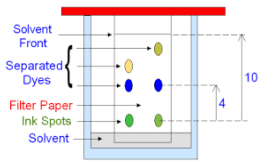
# A-LEVEL CHEMISTRY LEARNING JOURNEY

**EXAMS**

Reactions of inorganic aqueous ions

Chromatography

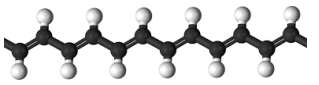
RP 12 – Thin layer chromatography



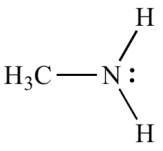

Organic Synthesis and Analysis

Amino Acids, Proteins and DNA





Polymers



RP 11 – identification of transition metal ions

Transition metals

Reactions of Period 3 Elements and their Oxides

RP 9 – pH changes in acid-base titration

$H^+$

Acids and Bases

$OH^-$

Amines

RP 10 – Preparing an organic solid and liquid

RP 7 – Rate of reaction

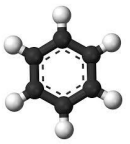
Equilibria and Kp

RP 8 – Electrochemical cells

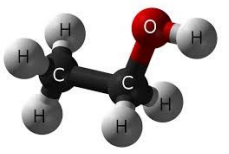
Electrode potentials and electrochemical cells

Kinetics - Rate Equations

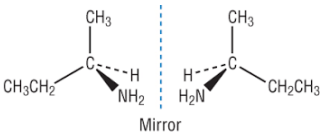
Carbonyl compounds – aldehydes & ketones, carboxylic acids, esters Acyl chlorides and acid anhydrides

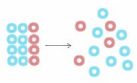


Aromatic chemistry



Optical Isomerism



Thermodynamics

**Year 13**

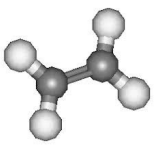
Organic Analysis

RP 6 – tests for organic compounds

Alcohols

RP 5 - distillation

Alkenes

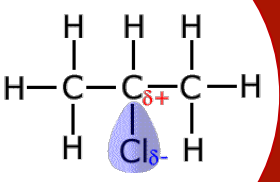








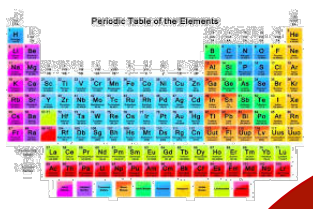
Group 2 – The Alkaline Earth Metals



RP 4 – Identifying cations and anions



Halogenoalkanes




Periodicity




Group 7 – The Halogens

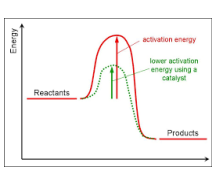
Equilibria and Kc

$wA + xB \rightleftharpoons yC + zD$

$K_c = \frac{[A]^w[B]^x}{[C]^y[D]^z}$

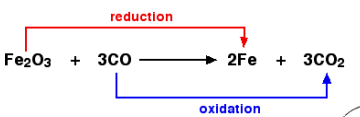
RP 3 – effect of temp on rate of reaction

Kinetics

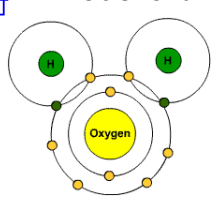



RP 2 – enthalpy change

Energetics

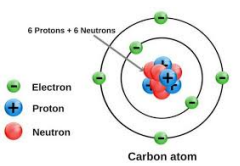



Redox Reactions



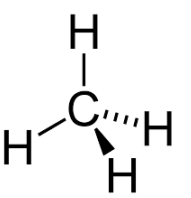

Bonding

Atomic Structure




Introduction to Organic Chemistry and Alkanes



RP 1 - Carrying out titrations

Amount of Substance

**Year 12**

