A-LEVEL CHEMISTRY LEARNING JOURNEY

EXAMS

Target Grade:

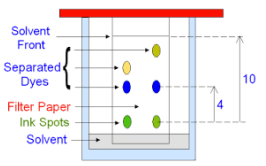


OH^-

H^+

Organic synthesis

Required Practical 12



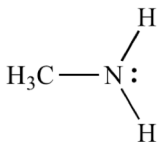
Reactions of period 3 and their oxides

Organic synthesis and analysis

Chromatography



Recap of NMR



Required Practical 11

Condensation polymers

Biodegradability and disposal of polymers

Proteins and enzymes

Structure of DNA

Shapes of complex ions

Polymers

Amino acids, protein and DNA

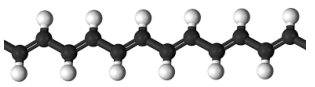
Types of chromatography

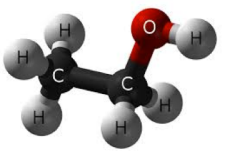
Catalysts

Substitution reactions

Amino acids

Action of anti-cancer drugs



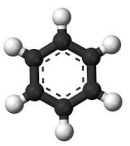


Transition metals and reactions of aq.ions

General properties of transition metals

Variable oxidation states

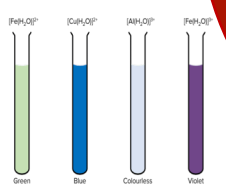
Nucleophilic properties



Bonding in benzene

Required Practical 8

Introduction to electrode potential and cells

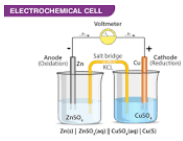


Formation of coloured ions

Amines

Benzene

Electrode potential electrochemical cells



Electrophilic substitution

Commercial applications of electrochemical cells

Base properties

Preparation of amines



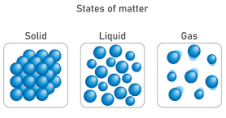
Required Practical 10

Ka

kW and strong bases

Buffer solutions

Acyl chlorides and acid anhydrides



Carbonyl Compounds

Acids and Bases

Calculating EMF of cell

Thermodynamics

carboxylic acids

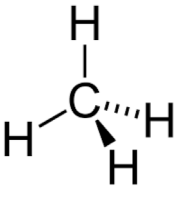
aldehydes & ketones

Esters

Calculation pH of strong acids

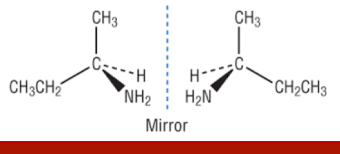
Required Practical 9

pH curves and indicators



Entropy And Gibbs free energy

Optical Isomerism



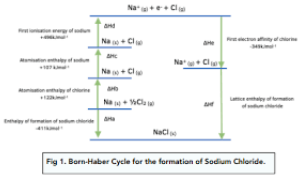
Order of reaction rate graphs

Optical Isomerism

Rate Equations

Year 13

Born Haber Cycles



Required Practical 7

Arrenihus equation

Introduction to rate Equations

