

A-LEVEL CHEMISTRY LEARNING JOURNEY



EXAMS

Reactions of
Period 3
Elements and
their Oxides



Thermodynamics

Required
Practical 8

Electrode potentials
and electrochemical
cells

Required
Practical 11

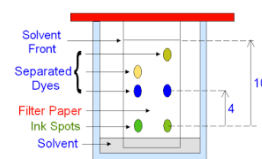
OH^-

Acids and
Bases

Required
Practical 12

H^+

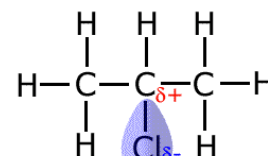
Chromatography



Amino Acids,
Proteins and
DNA



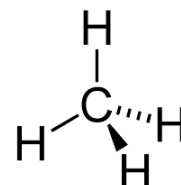
Polymers



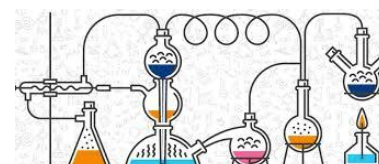
Halogenoalkanes



Introduction
to Organic
Chemistry
and Alkanes



Year
12



Atomic
Structure

Periodic Table of the Elements

1s	2s	2p	3s	3p	3d	4s	4p	4d	4f	5s	5p	5d	5f	6s	6p	6d	6f	7s	7p	7d	7f
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

not occupied by any ground state electrons

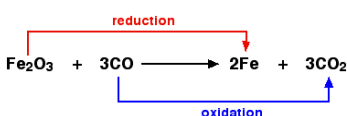
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Amount of
Substance

Periodic Table of the Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22

Redox
Reactions



17	35.453
Cl	
Chlorine	
[Ne] 3s ² 3p ⁵	
Halogens	

Group 7 –
The Halogens

Required
Practical 4



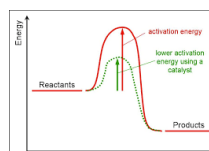
Group 2 – The
Alkaline Earth Metals



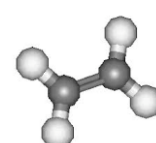
Organic
Analysis

Required
Practical 2

Kinetics



Alkenes

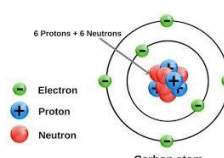


Required
Practical 3

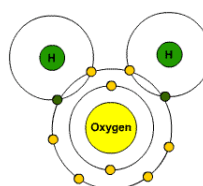
Equilibria and
Kc

$$wA + xB \rightleftharpoons yC + zD$$

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



Bonding



Energetics

Required
Practical 1

Periodicity

