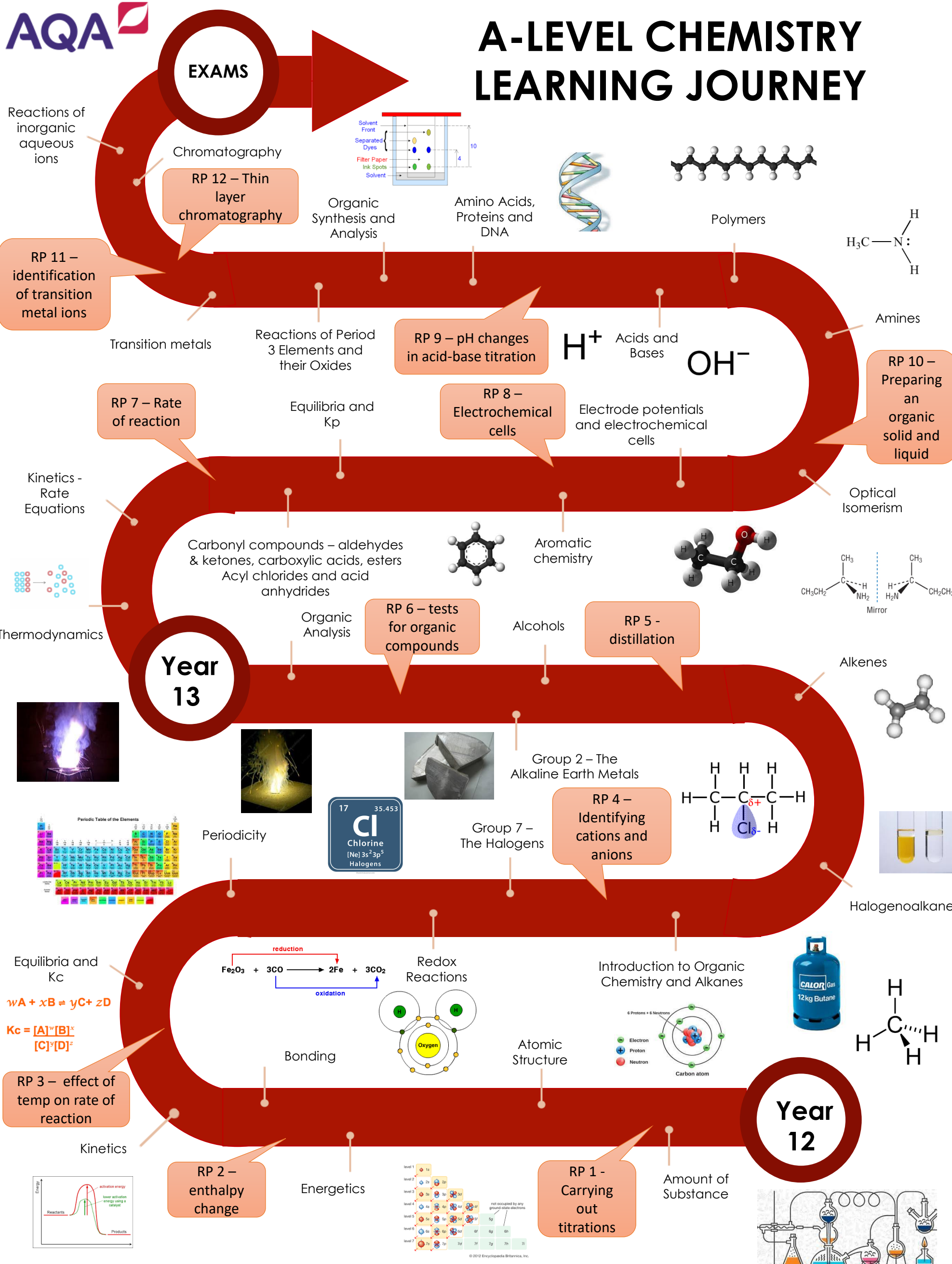


A-LEVEL CHEMISTRY LEARNING JOURNEY

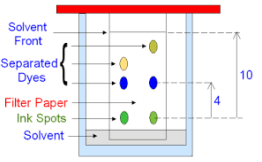


EXAMS

Reactions of inorganic aqueous ions

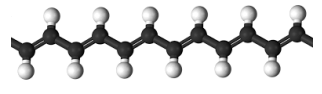
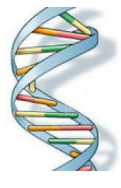
Chromatography

RP 12 – Thin layer chromatography

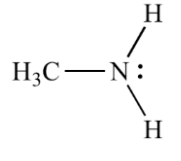


Organic Synthesis and Analysis

Amino Acids, Proteins and DNA



Polymers



Amines

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^-

RP 10 – Preparing an organic solid and liquid

RP 7 – Rate of reaction

Equilibria and K_p

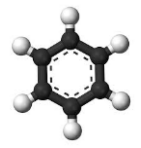
RP 8 – Electrochemical cells

Electrode potentials and electrochemical cells

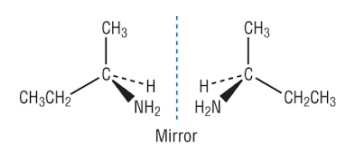
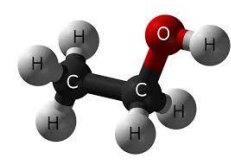
Optical Isomerism

Kinetics - Rate Equations

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



Aromatic chemistry



Thermodynamics

Year 13

Organic Analysis

RP 6 – tests for organic compounds

Alcohols

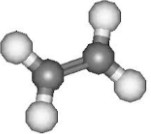
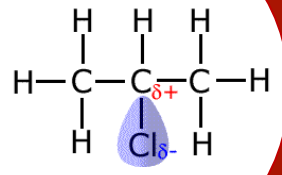
RP 5 - distillation

Alkenes



Group 2 – The Alkaline Earth Metals

RP 4 – Identifying cations and anions



Periodic Table of the Elements																	
I		II										III					
1		2										3					
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198		199										200					

Periodicity

17 35.453
Cl
Chlorine
[Ne]3s²3p⁵
Halogens

Group 7 – The Halogens

Halogenoalkanes

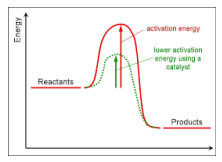
Equilibria and K_c

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

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

RP 3 – effect of temp on rate of reaction

Kinetics



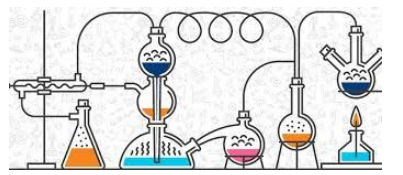
RP 2 – enthalpy change

Energetics

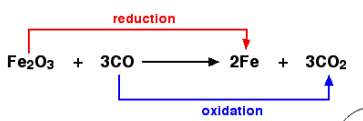
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level 1	2																					
level 2		2	6																			
level 3				2	6	10																
level 4							2	6	10	14												
level 5											2	6	10	14								
level 6															2	6	10	14				
level 7																			2	6	10	14

RP 1 - Carrying out titrations

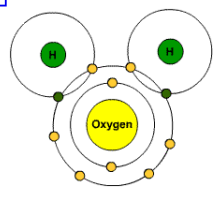
Amount of Substance



Year 12



Redox Reactions



Bonding

Atomic Structure

Introduction to Organic Chemistry and Alkanes

