



Learning Journey Map

Year 11 – Combined Chemistry



OCR

Oxford Cambridge and RSA

Year 11 Survival Top Tips	
Tip 1	Learn and revise vocabulary weekly, use glossaries given and - Quizlet/Seneca/Educake
Tip 2	Use Youtube- e.g. myGCSE, MrExham to help review key skills and concepts
Tip 3	Use GCSE Bitesize/Kerboodle resources/past OCR questions
Tip 4	Use the Pixl Resources on Firefly & therapy questions
Tip 5	Read online science news, watch science documentaries

C6 Global challenges

C6.1 Improving processes and products

- Extracting metals (iron and aluminium)
- Biological metal extraction (Higher Only)
- Choosing materials
- Recycling materials
- Alkanes from crude oil
- Cracking oil fractions

Move on to A level
★★★★★
BTEC Applied Science
★★★★★
T Level / Apprenticeship
★★★★★

YEAR 11

Reversible Reaction

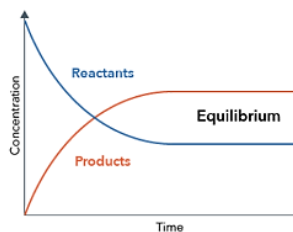
A + B ⇌ C + D

Reactants Products

ChemistryLearner.com

C5.2 Equilibria

- Reversible reactions
- Equilibrium position
- Choosing reaction conditions (Higher Only)



C5 Monitoring and controlling chemical reactions

C5.1 Controlling Reactions

- Rate of reaction and...
 - Temperature
 - Concentration and pressure
 - Particle size
 - Catalysts

Sodium thiosulfate solution + hydrochloric acid

White paper marked with a cross

YEAR 11

C4 Predicting and identifying reactions and products

C4.1 Predicting chemical reactions

- Group 1 – The alkali metals
- Group 7 – The halogens
- Halogen displacement reactions
- Group 0 – The noble gases
- The transition metals
- Reactivity of elements

YEAR 11

Review of summer learning

C6.2 Interpreting and interacting with Earth Systems

- Forming the atmosphere
- Pollution of the atmosphere
- Climate change
- Water for drinking

EXOSPHERE
— ECHOE —
THERMOSPHERE
— KARMA —
MESOSPHERE
— COOL —
STRATOSPHERE
— COOL —
TROPOSPHERE

YEAR 11

CURRICULUM OVERVIEW

Development of key scientific skills: planning valid experiments, carrying out practicals safely, displaying & processing data, as well as analysing & evaluating results

Possible careers

Research scientist Chemist Doctor Nurse Pharmacist
Forensic scientist Biochemical engineer Civil Engineer
Paramedic CSI Police officer and many more!!

CURRICULUM OVERVIEW