

Chemistry Curriculum Map - Year 10

Half term	Topics to be covered	Overview of content	Assessment
Advent 1.1	Consolidate C1 Atomic Structure and C2 The Periodic Table, including extra Chemistry GCSE content.	<p>From C1:</p> <ul style="list-style-type: none"> Atoms Chemical equations Separating mixtures Fractional distillation & paper chromatography <p>From C2</p> <ul style="list-style-type: none"> The transition elements • 	AP1: C1-C2
Advent 1.2	C3 Structure and bonding	<ul style="list-style-type: none"> States of matter Atoms into ions Ionic bonding & giant ionic structures Covalent bonding , simple molecules & giant covalent structures inc fullerenes & graphene Bonding in metals & giant metallic structures Nanoparticles & applications of nanoparticles 	Test: C3
Lent 2.1	C4 Chemical calculations	<ul style="list-style-type: none"> Relative masses and moles Equations and calculations From masses to balanced equations The yield of a chemical reaction Atom economy Expressing concentrations Titrations (inc RP) Titration calculations Volumes of gases 	AP2: C1-4

Lent 2.2	C5 Chemical changes	<ul style="list-style-type: none"> • The reactivity series • Displacement reactions • Extracting metals • Salts from metals • Salts from insoluble bases (inc RP) • Making more salts • Neutralisation and the pH scale • Strong and weak acids 	Test C5
Pentecost 3.1	C6 Electrolysis	<ul style="list-style-type: none"> • Introduction to electrolysis • Changes at the electrodes • The extraction of aluminium • Electrolysis of aqueous solutions 	Test C6
Pentecost 3.2	C7 Energy changes	<ul style="list-style-type: none"> • Exothermic and endothermic reactions • Using energy transfers from reactions • Reaction profiles • Bond energy calculations • Chemical cells and batteries • Fuel cells 	Test C7 End of year 10 exam (C1-C7 (paper 1 content)) 1 hour 45 minutes