
























Chemistry Super Curriculum Year 10

Acids, Bases, Salts



 Recommended Read: CGP GCSE Chemistry.	 Recommended podcast: Search podcast apps for "acid rain," "neutralization reactions," "titration,". Chemistry World may feature specific examples	 Recommended viewing (You Tube variety of titles & channels): Freesciencelessons: Multiple videos on Acids, Bases, Neutralization, Titrations, pH scale.
 Written activity: Practice calculations involving concentrations and titrations	 Recommended viewing (You Tube variety of titles & channels): Cognito: "Acids, Bases and Alkalis"; "Titrations".	 Recommended Read: Relevant chapter from AQA/OCR/Edexcel textbook.
 Building activity (home based): Homemade indicator (red cabbage) - test pH of household substances.	 Building activity (home based): Test local Water pH	 Written activity: Write balanced chemical equations for acid-base reactions.
 Recommended Read: Science Skool revision	 Written activity: Past papers	 Building activity (home based): Grow crystals from safe salts (Epsom salts, table salt). 3. Test local Water pH
 Recommended viewing (You Tube variety of titles & channels): Khan Academy: Many on Titrations	Job Opportunities & Salary Ranges (GBP) Use: National Careers Service	

	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit



Chemistry Super Curriculum Year 11

Redox & Electrolysis



	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit

<p>Recommended viewing (You Tube variety of titles & channels): FreeScience Lessons: Several videos</p>	<p>Read: Relevant textbook chapters</p>	<p>Written activity: Questions to practice balancing Redox.</p>
<p>Read: Science Skool and other revision websites</p>	<p>Recommended podcast: Try to relate Redox or Electrolysis with the various types of Batteries</p>	<p>Building activity (home based): With old fashion simple copper and zinc coins and using suitable inter coin material construct your own battery</p>
<p>Recommended viewing (You Tube variety of titles & channels) Cognito</p>	<p>Written activity: Draw fully labelled diagram, identify, Cations, Anions and direction of electron travel.</p>	<p>Recommended viewing (You Tube variety of titles & channels): You Tube, Search under electrolysis</p>
<p>Job Opportunities & Salary Ranges (GBP) Use: National Careers Service</p>		



Chemistry Super Curriculum Year 11

Organic Alkanes



<p>Recommended viewing (You Tube variety of titles & channels): FreeScience Lessons: "Alkanes"; "Crude Oil and Fractional Distillation".</p>	<p>Read: <i>CGP GCSE Chemistry</i></p>	<p>Written activity: Draw structural formulas of alkanes (up to C10, include isomers).</p>
<p>Read: Relevant textbook chapter.</p>	<p>Recommended podcast: Search podcast apps for "fossil fuels," "petroleum," "hydrocarbons." "Chemistry World" often covers related topics.</p>	<p>Building activity (home based): Molecular model kit: Build models of various alkanes, including structural isomers.</p>
<p>Recommended viewing (You Tube variety of titles & channels): Cognito "Organic Chemistry Introduction"; "Alkanes".</p>	<p>Written activity: Write equations for complete and incomplete combustion of alkanes.</p>	<p>Recommended viewing (You Tube variety of titles & channels): Search "combustion of alkanes" on YouTube.</p>
<p>Written activity: Past Paper Q</p>	<p>Building activity (home based): Research the uses of different alkane fractions obtained from crude oil.</p>	<p>Read: www.chemguide.co.uk alkanes section.</p>

Job Opportunities & Salary Ranges (GBP)

Use: [National Careers Service](http://www.nationalcareersservice.co.uk)

	Reading Task		Creative Task
	Research Task		Writing Task
	Watching Task		Student – Led Task
	Listening Task		Trip or Visit