

Chemistry – Year 11 Useful Links

Quantitative Chemistry

Relative Formula Mass	https://youtu.be/it_fMQu5ivg Relative formula mass - Calculations in chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Moles and Mass	https://youtu.be/wPGVQu3UXpw Moles - Quantitative chemistry: Video playlist - BBC Bitesize
Calculating Mass in Reactions	https://youtu.be/TV6n5MFH6IU Chemical measurements - Calculations in chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Conservation of Mass	https://youtu.be/M-De2IMayco Law of conservation of mass - Calculations in chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Limiting Reactants	https://youtu.be/TKDOyR7WKQQ
Concentration Calculations (Moles/dm ³)	https://youtu.be/kJBbu7_vYC8 Concentration of solutions - Calculations in chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Gas Calculations	https://youtu.be/Qn5CgfokdWk Molar gas volume - Quantitative chemistry: Video playlist - BBC Bitesize Avogadro's law - Higher - Atom economy, percentage yield and gas calculations - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Molar gas volume - Higher - Atom economy, percentage yield and gas calculations - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Calculations involving molar volume - Higher - Atom economy, percentage yield and gas calculations - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Atom Economy	https://youtu.be/MQXzW9BryAg Atom economy - Atom economy, percentage yield and gas calculations - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Percentage Yield	https://youtu.be/hnawBsyZTc8 Percentage yield - Atom economy, percentage yield and gas calculations - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize

Organic Chemistry

Note: Some of Organic Chemistry topic was covered in Year 9

Hydrocarbons	https://youtu.be/yklFTtTjoso Crude oil and hydrocarbons - Crude oil, hydrocarbons and alkanes - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Alkanes - Properties & Combustion	https://youtu.be/F8J2Firblxg Alkanes - Crude oil, hydrocarbons and alkanes - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Fractions - Crude oil, hydrocarbons and alkanes - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Fractional Distillation	https://youtu.be/CjmriZq5xRo Separating crude oil - Crude oil, hydrocarbons and alkanes - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Cracking & Alkenes	https://youtu.be/bOiYLKX9ZRY Cracking and alkenes - Crude oil, hydrocarbons and alkanes - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Alkenes - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Reaction of Alkenes	https://youtu.be/83Is-rouV-U Reactions of alkenes - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Addition Polymers	https://youtu.be/lZUg6ZC3ltA Addition polymerisation - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Alcohols	https://youtu.be/vVwLaIfRsVY Alcohols - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Reactions of alcohols - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Production of Ethanol	https://youtu.be/uFZasZ-hs_A
Carboxylic Acids	https://youtu.be/ED9EU3FfzyU Carboxylic acids - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Esters	https://youtu.be/cYgRd4rXY6I
Condensation Polymers	https://youtu.be/U-eCXeFwTgY

	Condensation polymerisation - Higher - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Naturally Occurring Polymers	https://youtu.be/7o27fhO_nm0 Biological polymers - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Amino acids - Higher - More organic chemistry - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize

Using resources

Ceramics, Composites & Polymers	https://youtu.be/q7VAq8t2gi0 Glass and clay ceramics - Using materials - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Polymers - Using materials - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Composite materials - Using materials - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Use of metals	Uses of metals - Using materials - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Corrosion	https://youtu.be/q0CAfXV-YdY Corrosion - Using materials - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Preventing corrosion - Using materials - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Sustainable Development (Reuse and Recycle)	https://youtu.be/obb-ZHqBwI0 The Earth's resources - Sustainable development - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Finite and renewable resources - Sustainable development - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Recycling - Ways of reducing the use of resources - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Life Cycle Assessments	https://youtu.be/ScY_YbIV8AY Life-cycle assessment - Ways of reducing the use of resources - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Potable Water	https://youtu.be/PDeIRIQvWnM Potable water - Water - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Desalination - Water - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Waste Water Treatment	https://youtu.be/jLaeBykDwaM

	Waste water treatment - Water - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Water - required Practical	Required practical - Water - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
The Haber Process	https://www.youtube.com/watch?v=I_HoWz5Kxflk The Haber process - Fertilisers - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize The Haber process - Higher - Fertilisers - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
NPK Fertilizers	https://www.youtube.com/watch?v=HaCLhgRmmU8 What are fertilisers? - Fertilisers - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize Making ammonium sulfate - Fertilisers - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize
Biological methods of metal extraction	Biological methods of metal extraction - Higher - Ways of reducing the use of resources - AQA - GCSE Chemistry (Single Science) Revision - AQA - BBC Bitesize

Year 11 Chemistry Spelling List

Key Word	Definition
Alkali	Bases which form hydroxide ions (OH ⁻) when dissolved in water.
Atmosphere	A mixture of gases that surrounds the Earth.
Avogadro	Scientist who has the Avogadro's Constant named after him. (6×10^{23}).
Chlorine	A toxic, green, halogen elemental diatomic gas, formula Cl ₂ , atomic number 17.
Chromatography	Common laboratory technique for the separation of a mixture into its components.
Covalent (bond)	A shared pair of electrons between two (usually non-metal) atoms.
Electrolysis	Technique for splitting a substance, usually a solution of ions, using electricity.
Hydrochloric (acid)	Common strong acid used in the laboratory, formula HCl.
Hydrolysis	Breaking down of chemical bonds using water.
Intermolecular	Between molecules; used when describing weak forces between molecules.
Oxidising	Combining with oxygen; making into an oxide.
Oxygen	A group 6, colourless, diatomic gas necessary for life, formula O ₂ , atomic number 8
Potable	Safe to drink; as in potable water (drinking water).
Separate	Cause or move to be apart.
Sulfuric (acid)	Common strong acid used in the laboratory, formula H ₂ SO ₄ .
Repeatable	Data are repeatable if a person can do their experiment again and obtain similar results/patterns.
Reproducible	Data are reproducible if someone else can do the experiment again and obtain similar results/patterns.
Temperature	Physical quantity that expresses quantitatively the attribute of hotness or coldness.
Thermometer	Instrument that measures temperature.
Yield	Mass obtained in a reaction.