

## AQA Combined Science and Chemistry revision videos: Chemistry paper 2

Topic	Subtopic	Video link
The rate and extent of chemical change	Mean rate of reaction	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/mean-rate-of-reaction/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/mean-rate-of-reaction/</a>
	Using tangents to determine rate	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/using-tangents-to-determine-rate/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/using-tangents-to-determine-rate/</a>
	Effect of concentration on rate	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/effect-of-concentration-on-rate/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/effect-of-concentration-on-rate/</a>
	Required practical: Rates of reaction	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/required-practical-5-rates-of-reaction/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/required-practical-5-rates-of-reaction/</a>
	Effect of surface area on rate	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/effect-of-concentration-on-rate/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/effect-of-concentration-on-rate/</a>
	Effect of temperature on rate	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/effect-of-temperature-on-rate/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/effect-of-temperature-on-rate/</a>
	Catalysts	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/catalysts/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/catalysts/</a>
	Reversible reactions	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/reversible-reactions/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/reversible-reactions/</a>
	Concentration and reversible reactions	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/concentration-and-reversible-reactions/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/concentration-and-reversible-reactions/</a>
	Temperature and reversible reactions	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/temperature-and-reversible-reactions/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/temperature-and-reversible-reactions/</a>
	Pressure and reversible reactions	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/pressure-and-reversible-reactions/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/rates-of-reaction/pressure-and-reversible-reactions/</a>
Organic Chemistry	Crude oil and hydrocarbons	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/crude-oil-and-hydrocarbons/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/crude-oil-and-hydrocarbons/</a>
	Properties of hydrocarbons	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/properties-of-hydrocarbons/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/properties-of-hydrocarbons/</a>
	Combustion of hydrocarbons	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/combustion-of-hydrocarbons/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/combustion-of-hydrocarbons/</a>
	Fractional distillation of crude oil	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/fractional-distillation-of-crude-oil/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/fractional-distillation-of-crude-oil/</a>
	Cracking	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/cracking/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/cracking/</a>
	Alkenes (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/alkenes-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/alkenes-triple/</a>
	Reactions of alkenes 1 (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/reactions-of-alkenes-1-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/reactions-of-alkenes-1-triple/</a>
	Reactions of alkenes 2 (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/reactions-of-alkenes-2-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/reactions-of-alkenes-2-triple/</a>
	Alcohols (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/alcohols-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/alcohols-triple/</a>
	Reactions of alcohols (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/reactions-of-alcohols-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/reactions-of-alcohols-triple/</a>
	Carboxylic acids (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/carboxylic-acids-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/carboxylic-acids-triple/</a>
Addition polymers (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/addition-polymers-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/addition-polymers-triple/</a>	

	Condensation polymers (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/condensation-polymers-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/condensation-polymers-triple/</a>
	Amino acids (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/amino-acids-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/amino-acids-triple/</a>
	DNA (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/dna-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/organic-chemistry/dna-triple/</a>
Chemical Analysis	Purity and Formulations	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/purity-and-formulations/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/purity-and-formulations/</a>
	Chromatography	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/chromatography/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/chromatography/</a>
	Required practical 6: Chromatography	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/required-practical-6-chromatography/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/required-practical-6-chromatography/</a>
	Testing for gases	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/testing-for-gases/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/testing-for-gases/</a>
	Flame tests (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/flame-tests-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/flame-tests-triple/</a>
	Metal hydroxide precipitates (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/metal-hydroxide-precipitates-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/metal-hydroxide-precipitates-triple/</a>
	Identifying non-metal ions (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/identifying-non-metal-ions-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/identifying-non-metal-ions-triple/</a>
	Required practical: Identifying ions (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/required-practical-7-identifying-ions-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/chemical-analysis/required-practical-7-identifying-ions-triple/</a>
Chemistry of the atmosphere	The atmosphere	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/the-atmosphere/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/the-atmosphere/</a>
	Fossil fuels	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/fossil-fuels/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/fossil-fuels/</a>
	The greenhouse effect	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/the-greenhouse-effect/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/the-greenhouse-effect/</a>
	Climate change	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/climate-change/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/climate-change/</a>
	Carbon footprint	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/carbon-footprint/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/carbon-footprint/</a>
	Pollutants from fuels	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/pollutants-from-fuels/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/the-atmosphere/pollutants-from-fuels/</a>
Using Resources	Using earth's resources	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/using-the-earths-resources/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/using-the-earths-resources/</a>
	Potable water	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/potable-water/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/potable-water/</a>
	Required practical: Water	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/required-practical-8-water/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/required-practical-8-water/</a>
	Waste water treatment	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/waste-water-treatment/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/waste-water-treatment/</a>
	Alternative methods of extracting metals	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/alternative-methods-of-extracting-metals/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/alternative-methods-of-extracting-metals/</a>
	Life cycle assessment	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/life-cycle-assessment/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/life-cycle-assessment/</a>
	Recycling	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/recycling/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/recycling/</a>
	Corrosion (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/corrosion-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/corrosion-triple/</a>

	Alloys (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/alloys-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/alloys-triple/</a>
	Ceramics and composites (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/ceramics-and-composites-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/ceramics-and-composites-triple/</a>
	Thermosoftening and thermosetting polymers (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/thermosoftening-and-thermosetting-polymers-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/thermosoftening-and-thermosetting-polymers-triple/</a>
	The Haber Process (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/the-haber-process-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/the-haber-process-triple/</a>
	NPK fertilisers (Chemistry only)	<a href="https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/npk-fertilisers-triple/">https://www.freesciencelessons.co.uk/gcse-chemistry-paper-2/resources/npk-fertilisers-triple/</a>