

AQA Combined Science and Chemistry revision videos: Chemistry paper 1

Topic	Subtopic	Video link
Atomic structure and the periodic table	Elements, compounds and mixtures	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/elements-compounds-and-mixtures/
	Interpreting a chemical formula	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/interpreting-a-chemical-formula/
	Filtration and crystallisation	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/filtration-and-crystallisation/
	Simple distillation	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/simple-distillation/
	Fractional distillation	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/fractional-distillation/
	Chromatography	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/chromatography/
	Alpha-scattering experiment	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/alpha-scattering-experiment/
	The nuclear model	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/the-nuclear-model/
	Atomic number and mass number	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/atomic-number-and-mass-number/
	Relative atomic mass	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/relative-atomic-mass/
	Electron energy levels	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/electron-energy-levels/
	Development of the periodic table	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/development-of-the-periodic-table/
	Group 0	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/group-0/
	Metals	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/metals/
	Group 1 part 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/group-1-part-1/
	Group 1 part 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/group-1-part-2/
	Group 7 part 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/group-7-part-1/
	Group 7 part 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/group-7-part-2/
	Group 7 part 3	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/group-7-part-3/
	Transition elements (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/atomic-structure-and-the-periodic-table/transition-elements-triple/
Structure and bonding	The three states of matter	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/the-three-states-of-matter/
	Ionic bonding 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/ionic-bonding-1/
	Ionic bonding 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/ionic-bonding-2/
	Properties of ionic compounds	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/properties-of-ionic-compounds/
	Covalent bonding 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/covalent-bonding-1/
	Covalent bonding 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/covalent-bonding-2/
	Covalent bonding 3	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/covalent-bonding-3/

	Properties of small covalent molecules	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/properties-of-small-covalent-molecules/
	Diamond and silicon dioxide	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/diamond-and-silicon-dioxide/
	Graphite	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/graphite/
	Graphene and fullerenes	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/graphene-and-fullerenes/
	Bonding in polymers	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/bonding-in-polymers/
	Metals and alloys	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/metals-and-alloys/
	Nanoparticles (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/nanoparticles-triple/
	Limitations of bonding diagrams	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/structure-and-bonding/limitations-of-bonding-diagrams/
Quantitative chemistry	Conservation of mass	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/conservation-of-mass/
	Charge on ions	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/charges-on-ions/
	Formula of ionic compounds	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/formula-of-ionic-compounds/
	Balancing chemical equations	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/balancing-chemical-equations/
	Relative formula mass	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/relative-formula-mass/
	Calculating percentage by mass	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/calculating-percentage-by-mass/
	Calculating moles of an element	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/calculating-moles-of-an-element/
	Calculating moles of a compound	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/calculating-moles-of-a-compound/
	Calculating mass of a number of moles	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/calculating-mass-of-a-number-of-moles/
	Using moles to balance equations	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/using-moles-to-balance-equations/
	Avogadro's constant 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/avogadros-constant-1/
	Avogadro's constant 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/avogadros-constant-2/
	Reacting masses 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/reacting-masses-1/
	Reacting masses 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/reacting-masses-2/
	Limiting reactant	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/limiting-reactant/
	Concentration of solutions	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/concentration-of-solutions/
	Calculating percentage yield 1 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/calculating-percentage-yield-1-triple/
	Calculating percentage yield 2 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/calculating-percentage-yield-2-triple/
	Atom economy (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/atom-economy-triple/
	Using concentrations of solutions 1 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/using-concentration-of-solutions-1-triple/
Using concentrations of solutions 2 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/using-concentration-of-solutions-2-triple/	

	Using gas volumes 1 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/using-gas-volumes-1-triple/
	Using gas volumes 2 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/quantitative-chemistry/using-gas-volumes-2-triple/
Chemical changes	Reaction of metals with oxygen	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/reaction-of-metals-with-oxygen/
	The reactivity series	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/the-reactivity-series/
	Extraction of metals	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/extraction-of-metals/
	Oxidation and reduction in terms of electrons	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/oxidation-and-reduction-in-terms-of-electrons/
	Acids and alkalis	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/acids-and-alkalis/
	Acids reacting with metals 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/acids-reacting-with-metals-1/
	Acids reacting with metals 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/acids-reacting-with-metals-2/
	Three reactions of acids	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/three-reactions-of-acids/
	Required practical: Making soluble salts	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/required-practical-1-making-soluble-salts/
	Strong and weak acids	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/strong-and-weak-acids/
	Required practical: Carrying out a titration (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/required-practical-2-carrying-out-a-titration-triple/
	Titration calculations 1 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/titration-calculations-1-triple/
	Titration calculations 2 (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/titration-calculations-2-triple/
	Introducing electrolysis	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/introducing-electrolysis/
	Electrolysis of aluminium oxide	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/introducing-electrolysis/
	Electrolysis of aqueous solutions 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/electrolysis-of-aqueous-solutions-1/
Electrolysis of aqueous solutions 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/electrolysis-of-aqueous-solutions-2/	
Required practical: Electrolysis	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/chemical-changes/required-practical-3-electrolysis/	
Energy changes	Exothermic and endothermic reactions	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/energy-changes-2/exothermic-and-endothermic-reactions/
	Bond energy calculations 1	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/energy-changes-2/bond-energy-calculations-1/
	Bond energy calculations 2	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/energy-changes-2/bond-energy-calculations-2/
	Required practical: Temperature changes	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/energy-changes-2/required-practical-4-temperature-changes/
	Cells and batteries (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/energy-changes-2/cells-and-batteries-triple/
	Fuel cells (Chemistry only)	https://www.freesciencelessons.co.uk/gcse-chemistry-paper-1/energy-changes-2/fuel-cells-triple/