

TIER	TOPIC	SUB HEADING	KEYWORDS
CORE/SUPPLEMENT	Acids, bases and salts	Acids and bases	acid, alkali, base, hydrogen ion, indicators, neutralisation, pH
CORE/SUPPLEMENT	Acids, bases and salts	Making salts	salt, hydroxide, carbonate, oxide, precipitate, filtration, crystallisation
CORE/SUPPLEMENT	Acids, bases and salts	Carboxylic acids	strong, weak, pH
CORE/SUPPLEMENT	Atoms, elements and compounds	Atoms, elements and compounds	atoms, elements, compounds, molecules, mixtures
CORE/SUPPLEMENT	Atoms, elements and compounds	Atomic structure	atomic structure, energy levels, atomic number, mass number, electronic structure
CORE/SUPPLEMENT	Atoms, elements and compounds	Isotopes	isotopes, atom, mass number
CORE/SUPPLEMENT	Structure and bonding	Ionic and covalent bonding	ions, ionic, covalent, molecule, giant structure
CORE/SUPPLEMENT	Structure and bonding	Metal structure and properties	delocalised electrons, conductor, giant structure
CORE/SUPPLEMENT	Structure and bonding	Ionic compounds	ions, ionic, giant structure, lattice
CORE/SUPPLEMENT	Structure and bonding	Simple covalent molecules	covalent, molecule
CORE/SUPPLEMENT	Structure and bonding	Giant covalent structures	giant structure, covalent, diamond, graphite, fullerene
CORE/SUPPLEMENT	Calculations in chemistry	RAM	relative atomic mass, relative formula mass
CORE/SUPPLEMENT	Calculations in chemistry	Calculating formulae	empirical formulae
CORE/SUPPLEMENT	Calculations in chemistry	Moles	Avogadro number, mole calculations
SUPPLEMENT	Calculations in chemistry	Gas volumes	molar volume of a gas
SUPPLEMENT	Calculations in chemistry	Yield in reactions	% yield
CORE/SUPPLEMENT	Calculations in chemistry	Titration	end-point, pH curve, indicator
CORE/SUPPLEMENT	Chemical reactions	Chemistry concepts	chemical reactions, balancing equations
CORE/SUPPLEMENT	Chemical reactions	Reversible reactions	Reversible reaction, dynamic equilibrium
CORE/SUPPLEMENT	Chemical reactions	Making ammonia (Haber process)	equilibrium, reversible
SUPPLEMENT	Chemical reactions	The contact process	contact process, sulfur, sulfuric acid,
CORE/SUPPLEMENT	Earth and atmosphere	The Earth's atmosphere	gases in the air, carbon dioxide, greenhouse gases, climate change, acid rain
CORE/SUPPLEMENT	Earth and atmosphere	Carbonates	thermal decomposition, lime water
CORE/SUPPLEMENT	Electrolysis	Electrolysis	anode, cathode, electrolyte
SUPPLEMENT	Electrolysis	Electrolysis calculations	half equation, coulomb, faraday
SUPPLEMENT	Electrolysis	Chemistry and uses of sodium chloride	electrolysis, salt
CORE/SUPPLEMENT	Energy in reactions	Exothermic and endothermic reactions	endothermic, exothermic, reversible

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CORE/SUPPLEMENT	Energy in reactions	Calculating energy changes in reactions	joule
CORE/SUPPLEMENT	Energy in reactions	Energy diagrams	activation energy, energy level diagram
SUPPLEMENT	Energy in reactions	Bond energy	bond making, bond breaking
CORE/SUPPLEMENT	Obtaining and using metals	Extracting metals	reactivity series, reduction, carbon, electrolysis, oxidation
CORE/SUPPLEMENT	Obtaining and using metals	Extracting iron	reactivity series, reduction, carbon, blast furnace, iron ore, coke, limestone
CORE/SUPPLEMENT	Obtaining and using metals	Extracting aluminium	reactivity, electrolysis, aluminium oxide, cryolite, half equations
CORE/SUPPLEMENT	Obtaining and using metals	Reactions of metals	Rusting, galvanising, sacrificial protection, reactivity series, displacement reactions, thermal decomposition
CORE/SUPPLEMENT	Crude oil and fuels	Crude oil	renewable, non-renewable, fossil fuels, hydrocarbons, alkanes
CORE/SUPPLEMENT	Crude oil and fuels	Fractional distillation of oil	fractions, viscosity, flammability, hydrocarbon
CORE/SUPPLEMENT	Crude oil and fuels	Burning fuels	combustion, particulates, fuel, methane, catalytic converter
CORE/SUPPLEMENT	Crude oil and fuels	Cracking hydrocarbons	alkanes, alkenes, addition reaction, bromine water, double bond, saturated, unsaturated, homologous series
CORE/SUPPLEMENT	Crude oil and fuels	Polymers	monomer, polymer, addition polymerisation, condensation polymerisation, biodegradable
SUPPLEMENT	Crude oil and fuels	Alcohols	ethanol, manufacture, fermentation, dehydration
CORE/SUPPLEMENT	Periodic table	Atomic structure and the periodic table	metals, non-metals, transition metals, groups, periods
CORE/SUPPLEMENT	Periodic table	Group 1 - alkali metals	properties
CORE/SUPPLEMENT	Periodic table	Group 7 - halogens	properties, displacement reactions
CORE/SUPPLEMENT	Periodic table	Group 0 - Noble gases	properties
CORE/SUPPLEMENT	Qualitative analysis	Chromatography	chromatography, chromatogram, R _f value
CORE/SUPPLEMENT	Qualitative analysis	Tests for ions	flame test, precipitate, tests for anions
CORE/SUPPLEMENT	Rates of reaction	How fast?	rate of reaction, experiments
CORE/SUPPLEMENT	Rates of reaction	Collision theory	activation energy, collision, kinetic theory, limiting factor
CORE/SUPPLEMENT	Rates of reaction	Catalysts	hydrogen peroxide, activation energy