

OCR 21ST CENTURY (A) GCSE CHEMISTRY EXAMINATION BOARD COVERAGE

Education, Anywhere, Anytime

Acids, bases and salts	(2IC) OCR A (2IC)
PAM Acids, bases and salts Naking salts Na	LEC6 MODULECT
Acothoc bases and salts	Y
F/H Acohols and esters Acohols fuel, solvent, ethanol, combustion	Y
F/H Acothols and esters	Y
F/M Atoms, elements and compounds Atomic structure and compounds atomic structure, energy levels, atomic number, mass number. Atomic selements and compounds Atomic structure and properties structure and bonding lonic and covalent bonding constitutions. Sociopes atomic number, mass number and compounds on sociopes, atom, mass number and compounds on sociopes, atom, mass number and convolution and covalent bonding constitutions. Sociopes, atom, mass number and convolution and covalent bonding constitutions. Sociopes, atom, mass number and convolution and covalent structure and bonding. And covalent structure and properties are and bonding. And covalent structure and properties are and bonding. And covalent structures are and bonding. Simple covalent molecules covalent, molecule and covalent structures. Grant structure, covalent, diamond, grant structure, covalent, molecule and properties. And structure and bonding and covalent structures are and bonding and covalent structures. Grant structure, covalent, molecule and properties. The structure and bonding and covalent structures are and bonding and covalent structures. Grant structure, covalent, molecule and properties. The structure and bonding and covalent structures are and bonding and covalent structures are and bonding and structure, covalent, molecule and structure, covalent a	Y
### Atoms, elements and compounds Atomic structure altomic structure, energy levels, atomic mumber, mass number in the properties of the process of the proc	Y
Atoms, elements and compounds Atoms, elements and compounds Sotopes Sotopes, atom, mass number PM Structure and bonding Sons, lonic, coalent, molecule, giant Structure and bonding Metal structure and properties Structure electrons, conductor, giant Structure and bonding Simple covalent molecules Ons, lonic, giant structure, lattice Ons, lonic, giant structure, lattice V FM Structure and bonding Simple covalent molecules Covalent, molecule Simple covalent structures giant structure, covalent, diamond, graphite, fallerene FM Building materials Umestone Chalk, limestone, marble Calculations in chemistry RAM Calculations in chemistry RAM Calculations in chemistry Moles H Calculations in chemistry Atom economy FM Calculations in chemistry FM Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium FM Chemical reactions Reversible reaction, dynamic equilibrium FM Chemical reactions FM Calculations in chemistry FM Earth and atmosphere FM Earth and atmosphere FM Earth and atmosphere Effects of human activities Structure Sotophis FM Electrolysis Electrolysis FM Elec	
F/H Structure and bonding	
F/H Structure and bonding Metal structure and properties delocational delocations of structure and bonding Metal structure and properties delocational delocations	
F/H Structure and bonding Ionic compounds Ions, Ionic, glant structure, lattice F/H Structure and bonding Ionic compounds Ions, Ionic, glant structure, lattice F/H Structure and bonding Simple covalent molecules covalent, molecule F/H Structure and bonding Glant covalent structures Ballding materials Limestone Chalk, limestone, marble F/H Building materials Carbonates Limestone Chalk, limestone, marble F/H Building materials Construction materials Limestone, cement, concrete F/H Calculations in chemistry RAM Felative atomic mass, Felative atomic mass, RAM Felative atomic mass, Felative	
F/H Structure and bonding Simple covalent molecules covalent, molecule	
F/H Structure and bonding Giant covalent structures giant structure, covalent, diamond, graphite, fullerene F/H Building materials Limestone chalk, limestone, marble F/H Building materials Carbonates thermal decomposition, lime water F/H Building materials Construction materials limestone, cement, concrete F/H Calculations in chemistry RAM relative atomic mass, RAM y H Calculations in chemistry Calculating formulae H Calculations in chemistry Moles H Calculations in chemistry Moles H Calculations in chemistry Atom economy F/H Calculations in chemistry Vield in reactions F/H Calculations in chemistry Vield in reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions F/H Earth and atmosphere F/H Earth and atmosphere Effects of human activities Electrolysis Electrolysis Electrolysis Electrolysis calculations Chemistry and uses of sodium chalk graphite, fullerene chalk, limestone, covalent, diamond, graphite, fullerene chalk, limestone, covalent, diamond, graphite, fullerene Limestone, arrived the materials Limestone, carbon divide, deforestation, air, photosynthesis, fosil fuel F/H Electrolysis Electrolysis calculations F/H Electrolysis Electrolysis calculations F/H Electrolysis Electrolysis calculations F/H Electrolysis Chemistry and uses of sodium chalk immestor, experience, airchae, greenhouse gases, fossil fuels F/H Electrolysis Chemistry and uses of sodium chalk immestor, experience, airchae, greenhouse gases, fossil fuels F/H Electrolysis Chemistry and uses of sodium chalk immestore, covalent, experience F/H Electrolysis Chemistry and uses of sodium chalk immestore, chalk, limestone, experience, airchae, greenhouse gases, fossil fuels F/H Electrolysis Chemistry F/	
F/H Building materials Limestone Chalk, limestone, marble F/H Building materials Carbonates thermal decomposition, lime water F/H Building materials Construction materials limestone, cement, concrete F/H Calculations in chemistry RAM relative atomic mass, RAM Y Calculations in chemistry Moles H Calculations in chemistry Moles H Calculations in chemistry Atom economy F/H Calculations in chemistry Yield in reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Reversible reaction, ary photosynthesis, fossil fuel F/H Earth and atmosphere Effects of human activities Electrolysis Electrolysis Electrolysis Electrolysis Electrolysis choicide Carbonates praphite, fullerene chalk, limestone, marble chemical, fullerene pratical exaction materials Limestone, marble relative atomic masser, RAM Y Calculations in chemistry Atom economy F/H Chemical reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Paking ammonia (Haber process) Asking ammonia (Haber process) oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel Y F/H Electrolysis Electrolysis Electrolysis anode, cathode, electrolyte Y Y Y Limestone Y Y Y Limestone Process Y Limestone, marble Atomic materials Limestone, marble Limestone, marble Atomic materials Py Limestone, marble Limestone Atomic marketials Limestone Py Limestone Limestone Limestone Limestone Limestone Limestone Limestone Limestone Limest	
F/H Building materials Limestone chalk, limestone, marble F/H Building materials Carbonates thermal decomposition, lime water F/H Building materials Construction materials limestone, cement, concrete F/H Calculations in chemistry RAM relative atomic mass, RAM Y Calculations in chemistry Galculating formulae H Calculations in chemistry Moles H Calculations in chemistry Gas volumes H Calculations in chemistry Atom economy F/H Calculations in chemistry Yield in reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions F/H Earth and atmosphere The atmosphere Effects of human activities Calculations Active deforestation, air, photosynthesis, fossil fuel F/H Electrolysis Electrolysis Electrolysis anode, cathode, electrolyte P/ Y P Y F/H Electrolysis Electrolysis calculations Chemistry and uses of sodium chloride, electrolysis, salt P Y Chemical reactions Calculations in chemistry Atom economy F/H Electrolysis F/H Electrolysis Chemistry and uses of sodium chloride, electrolysis, salt P Y Chemistry and uses of sodium chloride Chemistry and uses of sodium chloride Chemistry and uses of sodium chloride	
F/H Building materials Construction materials limestone, cement, concrete F/H Calculations in chemistry RAM relative atomic mass, RAM Y H Calculations in chemistry Calculating formulae H Calculations in chemistry Moles H Calculations in chemistry Gas volumes H Calculations in chemistry Atom economy F/H Calculations in chemistry Yield in reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions F/H Earth and atmosphere Effects of human activities F/H Earth and atmosphere Effects of human activities F/H Electrolysis Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chafter electrolysis, salt electrolysis, salt	
F/H Calculations in chemistry RAM relative atomic mass, RAM Y H Calculations in chemistry Calculating formulae H Calculations in chemistry Moles H Calculations in chemistry Gas volumes H Calculations in chemistry Atom economy F/H Calculations in chemistry Vield in reactions % yield F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel F/H Earth and atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y Y F/H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride Chemistry and uses of sodium electrolysis, salt Y	
H Calculations in chemistry Moles H Calculations in chemistry Moles H Calculations in chemistry Gas volumes H Calculations in chemistry Atom economy F/H Calculations in chemistry Yield in reactions F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere The atmosphere Oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel deforestation, air, photosynthesis, fossil fuels F/H Electrolysis Electrolysis Electrolysis Electrolysis Electrolysis Alfequation, coulomb F/H Electrolysis Electrolysis anode, cathode, electrolyte F/H Electrolysis Electrolysis alectrolysis, salt F/H Electrolysis Electrolysis, salt	
H Calculations in chemistry Moles H Calculations in chemistry Gas volumes H Calculations in chemistry Atom economy F/H Calculations in chemistry Yield in reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere The atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis Electrolysis anode, cathode, electrolyte F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt Y	Y
H Calculations in chemistry Gas volumes H Calculations in chemistry Atom economy F/H Calculations in chemistry Yield in reactions % yield F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel F/H Earth and atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y Y F/H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride	Y
H Calculations in chemistry Atom economy F/H Calculations in chemistry Vield in reactions % yield F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere Oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel F/H Earth and atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y F/H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride	
F/H Calculations in chemistry Vield in reactions % yield F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel of deforestation, air, photosynthesis, fossil fuel of deforestation, greenhouse gases, fossil fuel of the state of human activities and effects of human activities of deforestation, greenhouse gases, fossil fuels of human deforestation,	
F/H Chemical reactions Reversible reactions Reversible reaction, dynamic equilibrium F/H Chemical reactions Making ammonia (Haber process) F/H Earth and atmosphere The atmosphere oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel F/H Earth and atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt	Y
F/H Chemical reactions Making ammonia (Haber process) equilibrium, reversible Oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel F/H Earth and atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y Y Y F/H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt Y	Y
F/H Earth and atmosphere The atmosphere oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel Y F/H Earth and atmosphere Effects of human activities acid rain, global warming, dimming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt	Y
F/H Earth and atmosphere The atmosphere oxygen, carbon cycle, carbon dioxide, deforestation, air, photosynthesis, fossil fuel Y F/H Earth and atmosphere Effects of human activities acid rain, global warming, deforestation, greenhouse gases, fossil fuels F/H Electrolysis Electrolysis anode, cathode, electrolyte Y Y H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt	Y
F/H Electrolysis Electrolysis anode, cathode, electrolyte Y H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt	
H Electrolysis Electrolysis calculations half equation, coulomb F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt	
F/H Electrolysis Chemistry and uses of sodium chloride electrolysis, salt	
chloride electrolysis, salt	
Furthern's and and other 1	
F/H Energy in reactions Exothermic and endothermic reactions endothermic, exothermic, reversible	Y Y
F/H Energy in reactions Calculating energy changes in reactions joule	
F/H Energy in reactions Energy diagrams activation energy, energy level diagram	Y Y
H Energy in reactions Bond energy bond making, bond breaking	Y
F/H Food chemistry Saturated and unsaturated oils vegetable oil, saturated, unsaturated, hardening, margarine, hydrogenation	Y
F/H Food chemistry Emulsions hydrophobic, hydrophilic, emulsifier	
F/H Obtaining and using metals Extracting metals reactivity series, reduction, carbon, electrolysis, oxidation	
F/H Obtaining and using metals Extracting iron reactivity series, reduction, carbon	
F/H Obtaining and using metals Extracting copper electrolysis	
F/H Obtaining and using metals Extracting aluminium reactivity, electrolysis Y	

TIER	TOPIC	SUB HEADING	KEYWORDS	OCR A (2IC)	OCR A (21C)	OCR A (2IC)	OCR A (2IC)	OCR A (21C)	OCR A (2IC)	OCR A (2IC)
				MODULECI	MODULE C2	WODULE C3	MODULE C4	MODULE C5	MODULE C6	MODULE C7
F/H	Obtaining and using metals	Properties and uses of metals	conductors, corrosion, alloys, smart materials, recycling					Υ		
F/H	Crude oil and fuels	Crude oil	renewable, non-renewable, fossil fuels, hydrocarbons, alkanes	Υ						Υ
F/H	Crude oil and fuels	Fractional distillation of oil	fractions, viscosity, flammability, hydrocarbon		Υ					
F/H	Crude oil and fuels	Burning fuels	combustion, particulates, fuel, methane, catalytic converter	Υ						Υ
F/H	Crude oil and fuels	Alternative fuels	biofuel, biodiesel, ethanol, renewable, fermentation							Υ
F/H	Crude oil and fuels	Cracking hydrocarbons	alkanes, alkenes, addition reaction, bromine water, double bond, saturated, unsaturated, homologous series							Y
F/H	Crude oil and fuels	Polymers	monomer, double bond, bromine water, polymerisation, thermoset, thermo soft, biodegradable		Y					
F/H	Periodic table	Development of the periodic table	Newlands, Mendeleev, Dobereiner				Υ			
F/H	Periodic table	Atomic structure and the periodic table	metals, non-metals, transition metals, groups, periods				Υ			
F/H	Periodic table	Group 1 - alkali metals	properties				Υ			
F/H	Periodic table	Group 7 - halogens	properties, displacement reactions				Υ			
F/H	Periodic table	Transition elements	properties							
F/H	Periodic table	Group 0 - Noble gases	properties							
F/H	Qualitative analysis	Chromatography	chromatography, food additives, Rf value							Υ
F/H	Qualitative analysis	Tests for ions	flame test, precipitate				Υ	Υ		
F/H	Quantitative analysis	Titrations	end-point, pH curve, indicator						Υ	Υ
F/H	Rates of reaction	How fast?	rate						Υ	
F/H	Rates of reaction	Collision theory	activation energy, collision, kinetic theory, limiting factor						Υ	Υ
F/H	Rates of reaction	Catalysts	activation energy						Υ	Υ
F/H	Water	Hard and soft water	temporary hardness, permanent hardness, ion exchange, water softener							
F/H	Water	Soap and detergent	hydrophobic, hydrophilic							
F/H	Water	Purifying water	filter, ion exchange, distillation							