## Chemistry OCR. B Salters

	TERM 1 TOPIC LIST
(EL)	Elements of life
(a) - (h)	atomic number, mass number & isotopes Avogardo constant
	relative isotopic mass, relative atomic mass, relative formula mass & relative molecular mass atomic structure
(I) - (L)	bonding and structure: dot-and-cross diagrams, electron arrangements, giant lattice- and simple molecular structures and physical properties
	inorganic chemistry and periodic table
(t) - (u)	equilibria (acid-base)
(v) - (w)	energy and matter
(x)	modern analytical techniques
(DF)	Developing fuels
(a)	Volumes of gases
	Balanced chemical equations
	enthalpy changes
	bonding and structure: bonding in organic compounds, molecular shapes,
	energetics
	kinetics:
	inorganic chemistry and the table: origin of atmospheric pollutants & environmental implications
(L) - (m)	organic functional groups
(-)	nomenclature, general formula and structural formulae
(n) - (o)	organic reactions
	Balanced chemical equations for combustion
	addition reactions of alkenes
(p)	polymers
(p)	organic mechanisms
(4)	mechanism of electrophilic addition
	inconanism of electroprime addition
(r') - (t)	isomerism
(u)	sustainability
(")	benefits and risks of fuels
	sustainable energy supply
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	TERM 2 TOPIC LIST
(ES)	Elements from the sea
· · ·	formula equation and amount of substance
(b) - (g)	
	inorganic chemistry and the table: halogens: physical properties, reactivities, redox changes, precipitation
(h) - (n)	reactions, hydrogen halides & its properties, risk associated with storage and transport of chlorine
	equilibria
(OS)	The ozone story
(a) - (d)	electronegativity and trends in the periodic table
	bond polarity and shape of bonds
	intermolecular bonds: hydrogen bonds, dipole-induced dipole bonds, relative boiling points
(e) - (h)	kinetics
	activation enthalpy
	enthalpy profiles
	effects of concentration and pressure on rates of reaction
	Catalysts on rate of reaction
	Boltzmann distribution and temperature effects
(I)	inorganic chemistry and the periodic table
	calculation for composition by volume of a component in a gas
(j)	Organic functional groups
	haloalkanes
	amines
(k)	Organic reactions
	properties of haloalkanes
	boiling points Continued on next page.
	nucleophilic substitution with water, hydroxide ions and ammonia

(l) - (q)	Reaction mechanisms Sn2 mechanism
	radicals : formation, nature & reactivity
	homolytic & heterolytic bond fission
(r')	sustainability
` ′	formation and destruction of ozone and effects
(s) - (u)	energy and matter
(WN)	what's in a medicine?
(a) - (b)	organic functional groups of:
	carboxylic acids
	phenols
	acid anhydrides
	esters
	aldehydes
	ketones
	ethers
(c') - (g)	organic reactions
	properties of phenols
	reactions of alcohols
	thin layer chromatography, filtration and re-crystallisation
	preparing & purifying a liquid organic product
	principles of green chemistry
/h)	reaction machanisms
(h)	reaction mechanisms
(l) - (j)	modern analytic techniques
	interpretation of mass spectra
	effect of IR