OCR A - A2 CHEMISTRY	
TERM 1 NOTES	
6	**Organic chemistry and analysis**
6.1.1	Aromatic compounds
(a) - (c')	Benzene and aromatic compounds
(d) - (g)	Electrophilic subsituition
(h) - (l)	phenols
6.1.2	Carbonyl compounds
(a) - (c')	reactions of carbonyl compounds
(d) - (e)	characteristic tests
6.1.3	Carboxylic acids and esters
(a) - (b)	Properties
(c') - (d)	esters
(e) - (f)	Acyl chlorides
6.2	Nitrogen compounds, polymers and synthesis
6.2.1	Amines
(a) - (b)	Basicity and preparation of amines
6.2.2	Amino acids, amides and chirality
(a)	Reactions of amino acids
(b)	amides
(c') - (d)	chirality
(a) - (c')	condensation polymers
6.2.4	carbon-carbon bond formation
(a) - (d)	extending carbon chain length
6.2.5	Organic synthesis
(a)	practical skills
(b) - (c')	Synthetic routes
6.3	analysis
6.3.1	Chromatography and qualitative analysis
(a) - (b)	types of chromatograohy
(c')	tests for organic functional groups
6.3.2	Spectroscopy
(a) - (d)	NMR
(e)	combined techniques

OCR A - A2 CHEMISTRY	
TERM 2 NOTES	
5	**Physical chemistry and transition elements**
	Rates, equilibirum and Ph
5.1.1	How fast?
(a) - (c')	Orders rates and rate constants
(d) - (h)	Rate, graphs and orders
(I)	Rate determining step
(j) - (k)	Effect of temperature on rate constants
(a) - (h)	Equilibrium
5.1.3	Acids bases and buffers
(a) - (c')	Bronsted-Lowry acids and bases
(d) - (h)	Ph and [H+]
(I) - (m)	Buffers: action, uses and calculations
(n) - (o)	Neutralisation
5.2.1	Lattice enthalpy
(a)	Lattice enthalpy
(b) - (e)	Born-Haber and related enthalpy cycles
5.2.2	Enthalpy and entropy
(a) - (c')	Entropy
(d) - (f)	Free energy
5.2.3	Redox and electrode potentials
(a) - (c')	Redox and electrode potentials
(d) - (e)	Redox titrations
(f) - (I)	Electrode potentials
(j) - (k)	Storage and fuel cells
5.3	Transition elements
5.3.1	Transition elements
(a) - (c')	properties
(d) - (g)	Ligands and complex ions
(h) - (I)	Ligand substituition
(j)	precipitation reactions
(k) - (l)	Redox reactions
5.3.2	Qualitative analysis
(a)	Test for ions