Pearson Tutoring Programme Resources Mapping



Edexcel GCE A level Chemistry

The table shows the contents of each Group of lessons, mapped to the specification. Some lessons may appear in more than one Group.

Note that some aspects of Topics – mostly applications – have been removed from Lesson plans for brevity, but could be restored by Lesson authors if time permits.

There is potential overlap in Lesson C.4 and Lesson E.3 in terms of where optical activity / SN1 and SN2 are considered.

Lesson Group	Specification coverage	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Pre- Test	Post- Test
A: Fundamental principles of chemistry	Topic 1 Topic 2 Topic 5	Atomic Structure (1.1 – 1.7, 1.11 – 1.21)	lonic and covalent bonding (2.1 – 2.9, 2.13 – 2.15)	Intermolecular forces (2.16 – 2.21)	Shapes and structures (2.10 - 2.12, 2.22 - 2.27)	Chemical equations and quantitative chemistry (5.1-5.11)	A	A
B: Chemical energy	Topic 8 Topic 13	Enthalpy changes (8.1 – 8.4, 8.9 – 8.11)	Hess's Law / enthalpy practicals (8.5 – 8.8)	Lattice energy and Born Haber cycles (13.1 – 13.11)	Entropy (13.12 - 13.17)	Gibbs free energy (3.18 – 3.22)	В	В
C: Reaction kinetics	Topic 9 Topic 16	Collision theory and measuring reaction rates (9.1 – 9.3)	Maxwell- Boltzmann and catalysts (9.4 – 9.9)	Orders of reaction (16.1 – 16.2, 16.5-16.7)	Rates and mechanisms (16.8 – 16.11)	Obtaining rate data and rate equation (16.3 – 16.4, 16.12)	С	С
D: Equilibrium reactions	Topic 10 Topic 11 Topic 12	Factors influencing position of equilibrium (10.1 – 10.3)	Kc and Kp (10.4, 11.1 – 11.5)	Acids and pH (12.1 – 12.8)	Ka and Kw (12.9 – 12.15)	Buffers and titration curves (12.16 – 12.22)	D	D
E: Organic chemistry	Topic 6 Topic 17 Topic 18	Alkanes and alkenes (6.1 – 6.9, 6.15 - 6.25)	Haloalkanes and alcohols (6.30 – 6.38)	Chirality, carbonyls and carboxylic acids (17.1 – 17.15)	Aromatic Compounds (18.1 – 18.7)	Organic nitrogen compounds & synthetic	E	E

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						pathways (18.8		
						- 18.20)		
F: Periodic Table	Topic 3	Redox and	Groups 1, 2 and	Principles of	Reactions of	Redox	F	F
and redox	Topic 4	balancing	7 (4.1 – 4.14)	transition metal	transition	potentials (14.3		
	Topic 14	equations (3.1 –		chemistry (15.1	metals (15.15 –	- 14.12)		
	Topic 15	3.13, 14.18)		- 15.14)	15.30)			
G: Instrumental	Topic 1	Mass	NMR (19.2 –	IR and	Core Practical	Organic	G	G
and Core	Topic 7	spectrometry	19.5)	chromatograph	Techniques	techniques		
Practical	Topic 19	(1.8 – 1.10, 7.1,		y (7.2, 19.6 –	(CP1-17)	(6.39, 18.21 –		
techniques		19.1		19.8)	Chosen by	18.22)		
					school			