

INTERNATIONAL ADVANCED LEVEL
CHEMISTRY
COURSE PLANNER

Pearson Edexcel International Advanced Subsidiary in Chemistry (XCH11)

Pearson Edexcel International Advanced Level in Chemistry (YCH11)

First teaching September 2018

First examination from January 2019

First certification from August 2019 (International Advanced Subsidiary) and
August 2020 (International Advanced Level)



International Advanced Level Chemistry

Course Planner – Year 1 (IAS) Chemistry

This course planner has been developed to help you plan the organisation and delivery of the course. You can use this to plan your course delivery in outline. It is an example approach and may be adapted as needed.

Week number	Lesson content
1	Topic 1: Formulae, Equations and Amount of Substance (1-4, 6)
2	Topic 1: Formulae, Equations and Amount of Substance (7, 8, 10, 11)
3	Topic 1: Formulae, Equations and Amount of Substance (7, 8, 10, 11)
4	Topic 1: Formulae, Equations and Amount of Substance (5, 9, 12)
5	Topic 2: Atomic Structure and the Periodic Table (1-7)
6	Topic 2: Atomic Structure and the Periodic Table (8-13)
7	Topic 2: Atomic Structure and the Periodic Table (14-18)
8	Topic 3A: Ionic bonding (1-9)
9	Topic 3B: Covalent bonding (10-15)
10	Topic 3C: Shapes of molecules and Topic 3D: Metallic bonding (20-22)
11	Topic 4A: Introduction to Organic Chemistry (1-8) and Topic 4B: Alkanes (9-11)
12	Topic 4B: Alkanes (12-16)
13	Topic 4B: Alkanes (17, 18)
14	Topic 5: Alkenes (1-3)
15	Topic 5: Alkenes (4-8)
16	Topic 6: Energetics (1-5)
17	Topic 6: Energetics (6-8)
18	Topic 6: Energetics (9-11)
19	Topic 7: Intermolecular forces (1-6)
20	Topic 8A: Redox Chemistry (1-10)
21	Topic 8B: The elements of Groups 1 and 2 (11-18)
22	Topic 8B: The elements of Groups 1 and 2 (19-23)
23	Topic 8C: Inorganic chemistry of Group 7 (24, 25, 27ii, 28)
24	Topic 8C: Inorganic chemistry of Group 7 (26, 27i, 27iii)
25	Topic 9A: Kinetics (1-8)
26	Topic 9B: Equilibria (9-11)
27	Topic 10A: General Principles (1-5) and Topic 10B: Halogenoalkanes (6-9)
28	Topic 10B: Halogenoalkanes (10-14)
29	Topic 10C: Alcohols (15-20)
30	Topic 10D: Mass spectra and IR (21-23)

Course Planner – Year 2 (IA2) Chemistry

Week number	Lesson content
31	Topic 11: Kinetics (1-4i, 12b)
32	Topic 11: Kinetics (4ii, 5, 12a)
33	Topic 11: Kinetics (6-9)
34	Topic 11: Kinetics (10, 11, 13)
35	Topic 12A: Entropy (1-11)
36	Topic 12B: Lattice Energy (12-19)
37	Topic 13: Chemical Equilibria (1-4)
38	Topic 13: Chemical Equilibria (5-9)
39	Topic 14: Acid-base Equilibria (1-7)
40	Topic 14: Acid-base Equilibria (8-14, 23)
41	Topic 14: Acid-base Equilibria (15-22)
42	Topic 15A: Chirality (1-5)
43	Topic 15B: Carbonyl compounds (6-8)
44	Topic 15C: Carboxylic acids (9-12) and Topic 15D: Carboxylic acid derivatives (13-16)
45	Topic 15E: Spectroscopy and chromatography (17-23)
46	Topic 16: Redox Equilibria (1-6)
47	Topic 16: Redox Equilibria (7-11)
48	Topic 16: Redox Equilibria (12-14, 18, 19)
49	Topic 16: Redox Equilibria (15-17)
50	Topic 17: Transition metals and their chemistry (1-11)
51	Topic 17: Transition metals and their chemistry (12-17)
52	Topic 17: Transition metals and their chemistry (18-25)
53	Topic 17: Transition metals and their chemistry (26-33)
54	Topic 18: Organic Chemistry - arenes (1-3)
55	Topic 18: Organic Chemistry - arenes (4-6)
56	Topic 19: Organic nitrogen compounds: amines, amides, amino acids and proteins (1-6)
57	Topic 19: Organic nitrogen compounds: amines, amides, amino acids and proteins (7-12)
58	Topic 20: Organic synthesis (1-2)
59	Topic 20: Organic synthesis (3)
60	Topic 20: Organic synthesis (4, 5)