Cambridge IGCSE Chemistry 0620: topic checklist

All 12 topics and their sub-topics from the 2026–2028 syllabus. Tick each column as you go: learnt the notes, practised past-paper questions, confident in the exam.

My papers: ☐ Core: Paper 1 + Paper 3 + Paper 5 or 6 (grades C–G) ☐ Extended: Paper 2 + Paper 4 + Paper 5 or 6 (grades A*–G). Extended candidates also learn the Supplement content in every sub-topic.

Based on the Cambridge IGCSE Chemistry 0620 syllabus (2026–2028)

Sub-topic	Learnt	Practised	Confident
1 States of matter			
1.1 Solids, liquids and gases	☐	☐	☐
1.2 Diffusion	☐	☐	☐
2 Atoms, elements and compounds			
2.1 Elements, compounds and mixtures	☐	☐	☐
2.2 Atomic structure and the Periodic Table	☐	☐	☐
2.3 Isotopes	☐	☐	☐
2.4 Ions and ionic bonds	☐	☐	☐
2.5 Simple molecules and covalent bonds	☐	☐	☐
2.6 Giant covalent structures	☐	☐	☐
2.7 Metallic bonding	☐	☐	☐
3 Stoichiometry			
3.1 Formulae	☐	☐	☐
3.2 Relative masses of atoms and molecules	☐	☐	☐
3.3 The mole and the Avogadro constant	☐	☐	☐
4 Electrochemistry			
4.1 Electrolysis	☐	☐	☐
4.2 Hydrogen–oxygen fuel cells	☐	☐	☐
5 Chemical energetics			
5.1 Exothermic and endothermic reactions	☐	☐	☐
6 Chemical reactions			
6.1 Physical and chemical changes	☐	☐	☐
6.2 Rate of reaction	☐	☐	☐
6.3 Reversible reactions and equilibrium	☐	☐	☐
6.4 Redox	☐	☐	☐
7 Acids, bases and salts			
7.1 The characteristic properties of acids and bases	☐	☐	☐
7.2 Oxides	☐	☐	☐
7.3 Preparation of salts	☐	☐	☐
8 The Periodic Table			
8.1 Arrangement of elements	☐	☐	☐
8.2 Group I properties	☐	☐	☐
8.3 Group VII properties	☐	☐	☐
8.4 Transition elements	☐	☐	☐

Sub-topic	Learnt	Practised	Confident
8.5 Noble gases	☐	☐	☐
9 Metals			
9.1 Properties of metals	☐	☐	☐
9.2 Uses of metals	☐	☐	☐
9.3 Alloys and their properties	☐	☐	☐
9.4 Reactivity series	☐	☐	☐
9.5 Corrosion of metals	☐	☐	☐
9.6 Extraction of metals	☐	☐	☐
10 Chemistry of the environment			
10.1 Water	☐	☐	☐
10.2 Fertilisers	☐	☐	☐
10.3 Air quality and climate	☐	☐	☐
11 Organic chemistry			
11.1 Formulae, functional groups and terminology	☐	☐	☐
11.2 Naming organic compounds	☐	☐	☐
11.3 Fuels	☐	☐	☐
11.4 Alkanes	☐	☐	☐
11.5 Alkenes	☐	☐	☐
11.6 Alcohols	☐	☐	☐
11.7 Carboxylic acids	☐	☐	☐
11.8 Polymers	☐	☐	☐
12 Experimental techniques and chemical analysis			
12.1 Experimental design	☐	☐	☐
12.2 Acid–base titrations	☐	☐	☐
12.3 Chromatography	☐	☐	☐
12.4 Separation and purification	☐	☐	☐
12.5 Identification of ions and gases	☐	☐	☐

Tip: after each topic, do one past-paper question set under timed conditions and mark it with the official mark scheme. Bring the questions you got wrong to your tutor.