The Report Card

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IGCSE Chemistry (0620): Diagnostic Report

Student: Example Student (fictional) Date: 2026-11-02 Exam series: June 2027

How it was taken: in person, at our centre.

1. At a glance

Diagnostic score (Sections A and B)	47 / 60	78%
Alternative to Practical (Section C)	11 / 14	79%
The 12 syllabus topics	8 strong · 4 getting there · 0 need work	

What we found

• Knows the content well, but finds it harder to apply it to unfamiliar questions and calculations.

• Very secure on straightforward questions, but marks drop on multi-step questions. This is usually what separates a B from an A or A*.

• Most lost marks come from wrong ideas. These can be corrected directly now that they have been spotted.

Top 3 priorities

Topic	How it went	What we recommend
2.5 Simple molecules and covalent bonds	Needs work	Needs focused re-teaching and practice.
6.4 Redox	Needs work	Needs focused re-teaching and practice.
3.3 The mole and the Avogadro constant	Needs work	Needs focused re-teaching and practice.

Teacher's summary

Strong recall across most topics, with a good grasp of atomic structure, formulae and practical work. The main priority is moles: the mole ratio from an equation was missed in three separate questions, so this is a confirmed gap, not a slip. A wrong idea about what happens when simple molecular substances melt also affects bonding and energy questions. Both are very fixable. We suggest six focused sessions, then a short re-test.

2. Topic by topic

Score on each syllabus topic. Topics with only 1–3 marks were a quick check rather than a full test.

Topic	Score		How it went
1 States of matter	100%	■■■■■■■■■■	Strong
2 Atoms, elements and compounds	79%	■■■■■■■■□□	Strong
3 Stoichiometry	64%	■■■■■■□□□□	Getting there
4 Electrochemistry	50%	■■■■■□□□□□	Getting there
5 Chemical energetics	50%	■■■■■□□□□□	Getting there
6 Chemical reactions	71%	■■■■■■■□□□	Getting there
7 Acids, bases and salts	100%	■■■■■■■■■■	Strong
8 The Periodic Table	100%	■■■■■■■■■■	Strong
9 Metals	100%	■■■■■■■■■■	Strong
10 Chemistry of the environment	100%	■■■■■■■■■■	Strong
11 Organic chemistry	88%	■■■■■■■■■□	Strong
12 Experimental techniques and chemical analysis	100%	■■■■■■■■■■	Strong

The foundations

These topics underpin the rest of the course. Most were tested twice, in different ways; "confirmed twice" shows where both checks agreed.

Foundation topic	Result
1.1 Solids, liquids and gases	Strong
2.1 Elements, compounds and mixtures	Strong (confirmed twice)
2.2 Atomic structure and the Periodic Table	Strong (confirmed twice)
2.3 Isotopes	Strong
2.4 Ions and ionic bonds	Strong (confirmed twice)
2.5 Simple molecules and covalent bonds	Unclear: teacher reviewing
3.1 Formulae	Strong (confirmed twice)
3.2 Relative masses of atoms and molecules	Strong (confirmed twice)
3.3 The mole and the Avogadro constant	Needs work (confirmed twice)
6.1 Physical and chemical changes	Strong
7.1 The characteristic properties of acids and bases	Strong

3. How questions were answered

Skill	Score	
Knowing facts and ideas	90%	■■■■■■■■■□
Applying them to new questions and calculations	69%	■■■■■■■□□□
Practical skills (in Sections A and B)	60%	■■■■■■□□□□
Straightforward questions	100%	■■■■■■■■■■
Medium questions	83%	■■■■■■■■□□
Challenging multi-step questions	55%	■■■■■■□□□□

Why marks were lost

Reason	Share		What helps
Not learned yet	0%	□□□□□□□□□□	Re-teach the content, then practise
Holding a wrong idea	92%	■■■■■■■■■□	Correct the idea directly, then practise
Exam technique	8%	■□□□□□□□□□	Exam-style questions with mark schemes

Where the longer questions became too hard

Each Section B question gets harder step by step. This shows the first step where marks were lost.

Atoms, isotopes and bonding	First lost marks at: 2.4 Ions and ionic bonds
Equations, moles and titration	First lost marks at: 3.3 The mole and the Avogadro constant
Energy, rates and organic chemistry	First lost marks at: 5.1 Exothermic and endothermic reactions

4. Priorities and plan

Topic	How it went	What we recommend
1. 2.5 Simple molecules and covalent bonds	Needs work	Needs focused re-teaching and practice.
2. 6.4 Redox	Needs work	Needs focused re-teaching and practice.
3. 3.3 The mole and the Avogadro constant	Needs work	Needs focused re-teaching and practice.
4. 5.1 Exothermic and endothermic reactions	Getting there	Build up Simple molecules and covalent bonds first: this topic depends on it.
5. 4.1 Electrolysis	Getting there	Build up Redox first: this topic depends on it.

Action plan: what we will do	By when	How (sessions, resources)
Re-teach moles: ratio from equations, then solution calculations	Week 1–2	2 sessions + worked-example booklet
Correct the "covalent bonds break on melting" idea; structure → properties	Week 2	1 session + 10 exam questions
Energetics: bond-energy calculations and the sign of ΔH (after bonding is secure)	Week 3	1 session
Multi-step exam questions with mark schemes	Weeks 3–5	Weekly timed practice
Re-test on the priority topics	Week 6	30-minute check

Alternative to Practical (Section C)

Measuring the rate of a reaction	50%	Getting there
Chromatography	75%	Strong
Identifying a salt	100%	Strong
Separating a mixture	100%	Strong

Teacher's note

A pleasure to work with: careful and willing to show working, which made the gaps easy to pinpoint. Practical write-ups would gain marks by saying exactly what goes wrong and why.

Next steps

Recommended sessions	6 one-to-one sessions over 6 weeks
Re-test date	Week 6
Contact	thereportcardmy@gmail.com · WhatsApp +60 17-338 8938

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