

Revision Checklist: GCSE AQA Chemistry (Foundation Tier)

1

2

3

4

5

No understanding

Exam-ready

1. ATOMIC STRUCTURE & THE PERIODIC TABLE

Rate topics 1 to 5

a.	Elements, compounds & mixtures	
b.	Separating mixtures	
c.	Development of atomic model	
d.	Mass & atomic number	
e.	Relative atomic mass	
f.	Electronic structure	
g.	Groups & periods	
h.	Development of periodic table	
i.	Metals & non-metals	
j.	Group 0 elements	
k.	Group 1 elements	
l.	Group 7 elements	
m.	Transition metals	

4. CHEMICAL CHANGES

Rate topics 1 to 5

a.	The reactivity series	
b.	Extracting metals by reduction	
c.	Reacting acids with metals	
d.	Neutralisation of acids & naming salts	
e.	pH	
f.	Titrations	
g.	Electrolysis of molten ionic compounds	
h.	Electrolysis of aqueous solutions	

2. BONDING, STRUCTURE, & THE PROPERTIES OF MATTER

Rate topics 1 to 5

a.	Ionic bonding	
b.	Covalent bonding	
c.	Dot & cross diagrams	
d.	Metallic bonding	
e.	States of matter	
f.	Properties of ionic compounds	
g.	Properties of small molecules	
h.	Polymers & giant covalent structures	
i.	Properties of metals	
j.	Alloys	
k.	Diamond & graphite	
l.	Graphene & fullerenes	
m.	Nanoparticles	

5. ENERGY CHANGES

Rate topics 1 to 5

a.	Exothermic & endothermic reactions	
b.	Reaction profiles	
c.	Cells & batteries	
d.	Hydrogen fuel cell	

3. QUANTITATIVE CHEMISTRY

Rate topics 1 to 5

a.	Balancing chemical equations	
b.	Conservation of mass	
c.	Relative formula mass	
d.	Estimating uncertainty	
e.	Concentration	
f.	Percentage yield	
g.	Atom economy	

PRACTICALS

Rate topics 1 to 5

RP 1: "Prepare a pure, dry sample of a soluble salt from an insoluble oxide or carbonate."	
RP 2: "Determine the volumes of the solutions when reacting a strong acid and a strong alkali by titration."	
RP 3: "Investigate the electrolysis of aqueous solutions (a hypothesis must be formed and developed)."	