SACE Stage 2 Chemistry Data Sheet

Original worked revision examples with notes on units and assumptions.

Use the board PDF below for the official sheet. Coverage of examples varies by subject.

Official reference material

SACE Board 2025 Chemistry exam PDF, data sheet on page 25

What to work out beyond the sheet

In a redox answer, balance both atoms and charge in each half-equation before combining them.

Formulas and worked examples

Periodic table · amount from mass

Formula or reference: n = m/M. Use the atomic masses to calculate M.

Units and conditions: Use grams for m when M is in g/mol.

Worked example: Using Mg = 24.31, a 4.862 g sample of pure magnesium contains 0.2000 mol.

Electrochemistry · standard reduction potential

Formula or reference: Subtract the anode’s tabulated reduction potential from the cathode’s.

Units and conditions: Both values are expressed in volts for standard conditions.

Worked example: If the cathode entry is +0.34 V and the anode entry is −0.76 V, the cell potential is +1.10 V.