WACE Chemistry Data Book

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

SCSA 2026 Chemistry data booklet

What to work out beyond the sheet

Read the heading and conditions of the table before choosing a value. Check the exam materials for your sitting.

Formulas and worked examples

Periodic table · molar mass

Formula or reference: Add the atomic masses according to the subscripts in the formula.

Units and conditions: Use g/mol for molar mass. Keep extra digits until the end.

Worked example: Using C = 12.01 and O = 16.00 gives a CO_2 molar mass of 44.01 g/mol.

Electrochemistry · reading reduction potentials

Formula or reference: $E°cell = E°cathode − E°anode$, using standard reduction potentials for both half-reactions.

Units and conditions: Read both tabulated values in volts. Multiplying a half-equation leaves its potential unchanged.

Worked example: For tabulated reduction potentials of +0.80 V and +0.34 V, the higher-potential half-cell acts as cathode and $E°cell = +0.46$ V.