TCE Chemistry Information 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

TASC CHM415115 Chemistry information sheet, February 2026

What to work out beyond the sheet

Label the reaction direction and the conditions before interpreting a value from a table.

Formulas and worked examples

Gas calculations · absolute temperature

Formula or reference: T(K) = T(°C) + 273.15 for use in pV = nRT.

Units and conditions: Match pressure and volume to R.

Worked example: At 27.0 °C the temperature is 300.15 K. At 100 kPa, 1.00 mol occupies about 25.0 L.

Electrochemistry · ranking oxidising agents

Formula or reference: A higher standard reduction potential indicates a greater tendency to be reduced under standard conditions.

Units and conditions: Compare both entries as reductions, in volts.

Worked example: Between entries at +0.34 V and −0.76 V, the oxidised species in the +0.34 V entry is the stronger oxidant.