

Chemistry 30 – Formulas and Information

Thermochemistry:

Formula:	Variables:	When to use:
$Q = mc\Delta t$	Q = total heat/enthalpy (J or kJ) m = mass (g) c = specific heat capacity (J/g·C or kJ/g·C) Δt = temperature change (°C)	If given the specific heat capacity, mass and temperature change of one substance.
$nH = mc\Delta t$	n = moles of substance reacting ($n = cv$ or m/M) (mol) H = molar heat/enthalpy of substance reacting (J/mol or kJ/mol) m = mass of water (1g = 1 mL) c = specific heat capacity of water (J/g·C or kJ/g·C) Δt = temp. change of water (°C)	Calorimetry questions - if given information about a reacting substance and water (remember water is present to determine the energy released or absorbed by the reaction) - usually asked to find the molar enthalpy (H)
$\Delta H = \sum n_p H(\text{products}) - \sum n_r H(\text{reactants})$	ΔH = total heat/enthalpy (J or kJ) $\sum n_p H(\text{products})$ = sum of heats of formations of products $\sum n_r H(\text{reactants})$ = sum of heats of formations of reactants	Hess's Law: - if only have a reaction with no other energy information - remember: - use data booklet for heats of formations of several compounds - elements have a heat of formation of zero
% efficiency = $\frac{\text{energy output} \times 100}{\text{energy input}}$	% efficiency (%) energy output (J or kJ) released by a system/ energy input (J or kJ) absorbed by a system)	If asked for % efficiency and given the energy released and used by a system.

Electrochemistry:

Formula:	Variables:	When to use:
$E'_{\text{cell}} = E'_{\text{red}} + E'_{\text{ox}}$	E'_{cell} = net voltage of a cell (V) E'_{red} = voltage of the reduction half reaction (V) E'_{ox} = voltage of the oxidation half reaction (V)	If asked to find the voltage of a cell: - the voltages come from the data booklet - the oxidation half reaction comes from flipping the reduction half reaction in the data booklet (remember to flip the voltage sign as well, but you don't need to multiply the voltage if reaction was multiplied for equal electron transfer)
$q = It$	q = charge (C) I = current (C/s or A) t = time (s)	Electrical Stoichiometry: - if given info about an electrolytic process such as running a current and the length of time
$n_e = \frac{q}{F}$ or $\frac{It}{F}$	n_e = moles of electrons (mol) q = charge (C) I = current (C/s or A) t = time (s) $F = 9.65 \times 10^4 \text{ C/mol}$ (Faraday's Constant) n = moles of reacting substance (mol)	Electrical Stoichiometry: - if given info about an electrolytic process such as running a current and the length of time used to produce a solid metal - need to write the half reaction of the metal (substance) being electrolyzed or refined - use the n_e to calculate the n of the reacting substance (multiply n_e by the coefficient ratio wanted/given)

Chemistry 30 Key

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Chemistry 30 Key:

The Key Student Study Guide Gautam Rao, Markus Chan, Castle Rock Research Corp, 2013 **Chemistry 30** ,2015

The Key ,2002 **The Key** Rob Schultz,2004 **Resources in Education** ,1987 **The Key - Chemistry 30 (AB)**

Castle Rock Research Corp,2006-08-01 THE KEY is specifically designed to help students prepare for provincial testing THE KEY helps students review the entire curriculum identify concepts that have been mastered and those which require additional review become familiar with the format of provincial tests and develop effective test writing strategies Every KEY includes A synopsis of the essential learning s Multiple choice numerical and written response question formats providing varying levels of difficulty Detailed explanations and step by step solution processes for all questions Tips and strategies to improve performance and test scores Practice exams to help develop test writing skills and increase student confidence

The Key Student Study Guide Chemistry 30 Alberta ,2025 **The Publishers' Trade List Annual** ,1880 **The**

Publishers Weekly ,1895 **Publishers' Weekly** ,1900 **The American Bookseller** ,1878 **Journal of Physical & Colloid Chemistry** Wilder Dwight Bancroft,1929 **The Athenaeum** ,1903 Chemical News and Journal of Industrial

Science ,1918 **The Journal of Physical Chemistry** ,1929 The Academy and Literature ,1904 *Educational Times*

,1916 **The School World** ,1904 **List of Books and Prices Issued by the Superintendent of Public Instruction in Accordance with the Provisions of the Law Regulating the Sale of School Textbooks in Michigan** Michigan.

Department of Public Instruction,1913 Academy: a Weekly Review of Literature, Learning, Science and Art ,1904 The Poetical gazette the official organ of the Poetry society and a review of poetical affairs nos 4 7 issued as supplements to the Academy v 79 Oct 15 Nov 5 Dec 3 and 31 1910

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Chemistry 30 Key**

In a world inundated with monitors and the cacophony of immediate connection, the profound power and emotional resonance of verbal artistry often diminish in to obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, set within the musical pages of **Chemistry 30 Key**, a charming work of fictional beauty that pulses with fresh emotions, lies an unique journey waiting to be embarked upon. Published by a virtuoso wordsmith, this mesmerizing opus manuals viewers on a psychological odyssey, gently exposing the latent potential and profound impact embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main themes, dissect their captivating writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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