

Thermochemistry Formula Sheet:

1st Law of Thermodynamics: Endothermic: $q = +\cancel{L}$ Exothermic: $q = -\cancel{L}$	Internal Energy: $\Delta U = q + W$
Work Done By/On a Gas: Work done by the system: $W = -\cancel{L}$ Work done on the system: $W = +\cancel{L}$	$W = -P \Delta V$ $1 L \cdot atm = 101.3 \text{ Joules}$
Specific Heat Capacity: $J/(g \cancel{L} ^\circ C) \cancel{L}$	$C_s = \frac{q}{m \Delta T}$
Molar Heat Capacity: $J/(mol ^\circ C)$	$C_M = \frac{q}{n \Delta T}$
Heat Capacity: $J/^\circ C$	$C_n = \frac{q}{\Delta T}$
Calorimetry - Temperature Change:	$q = mc \Delta T$ $C_{H_2O} = 4.184 \frac{J}{g ^\circ C} \quad C_{ice} = 2.09 \frac{J}{g ^\circ C} \quad C_{steam} = 2.03 \frac{J}{g ^\circ C}$
Calorimetry - Phase Change:	$q = m \Delta H \quad q = n \Delta H$ $H_2O: \Delta H_{fus} = 334 J/g \quad \Delta H_{fus} = 6.01 kJ/mol$ $H_2O: \Delta H_{vap} = 2260 J/g \quad \Delta H_{vap} = 40.7 kJ/mol$
Final Temperature of a Mixture: $T_A \rightarrow$ Initial Temp. of Substance A $T_B \rightarrow$ Initial Temp. of Substance B	$-q_A = q_B$ $-m_A C_A (T_f - T_A) = m_B C_B (T_f - T_B)$ Note: This equation will work if there are no phase changes.
Coffee Cup Calorimeter:	$\Delta H^\circ_{rxn} = \frac{q_{rxn}}{n} \quad q_{rxn} = -q_{H_2O}$
Enthalpy Change:	

Thermochemistry Cp Test Sheet

Padhraic Smyth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Padhraic Smyth.

Thermochemistry Cp Test Sheet:

Reviewing **Thermochemistry Cp Test Sheet**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Thermochemistry Cp Test Sheet**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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