

Thermochemistry and Thermodynamics

Chemistry: The central Science AP version (10th edition, chapter 5)

Additional References and Resources

Powerpoint presentation from Melissa Brophy's website (modified for our needs)

Chemtour Animations and Vocab flashcards from W.W. Norton site:

<http://www.wwnorton.com/college/chemistry/chemistry3/ch/05/studyplan.aspx>

(a) State functions and path functions (b) Internal Energy (c) PV work (d) Calorimetry (e) Heating Curves

POGILS:

Thermochemistry and Calorimetry

Hess's Law: Enthalpy is a state function

Internal Energy and Enthalpy

Thermochemistry package: vocab, diagrams and equations, practice problems (M. Brophy)

Lab experiments:

- (1) Heat capacity of a metal
- (2) Heat of neutralization (HCl + NaOH)

Activity (sign conventions for q and w) from **chap 5 online resources** and movies (thermite; AlBr_3 ; Ni_3). **Online practice quiz**

Chemguy videos for introduction to energy and thermochemistry or thermodynamics

<http://www.youtube.com/watch?v=DipGoOu-r18&p=93017BDB7EDFE758&index=1&feature=BF>

Chem guy videos – thermodynamics 1-5 – one video clip runs into the next one for more advanced aspect of thermodynamics

For thermodynamics 1: spontaneous process, enthalpy, entropy (system, surroundings, universe)

<http://www.youtube.com/watch?v=94p9ZfTjKc&p=2FDA79D443854B33&index=2&playnext=2>

Thermochemistry And Thermodynamics

Katrin Zwirgmaier



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web sir thomas jones woodward obe 1 2 3 born 7 june 1940 is a welsh singer his career began with a string of top 10 hits in

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