Study Guide for Chapter 2

1) What is first law?
2) Reversible PV work = $-\int P dv$
   maximum work?
3) Definition of C_p, C_v
   Relation C_p, C_v for ideal gas, liquid, solid
4) Enthalpy: $H = U + PV$
   P=const: $\Delta Q_P = \Delta H$; V=const: $\Delta Q_V = \Delta U$
5) Hess law
   Example in book: glucose $\rightarrow$ maltose, ΔH=?
6) Calculate ΔU, ΔH, Q for ideal gas processes,
   Isothermal, adiabatic, constant V,T; constant P,T