

MONDAY, MARCH 21, 2005

LAST MINUTE QUESTIONS ON ENERGY PROJECT

REVIEW HEAT QUESTIONS/PACKET 1

NOTES:

How is energy used during a phase change?

Write down and explain observations (time, sound, movement) of:

Water boiling from start to finish:

Water freezing to ice:

HEAT ENERGY TAKEN IN  $\Delta Q =$

TempRise  $mC\Delta T = \text{mass (kg)} * C \text{ (Specific Heat in J/(kg } ^\circ\text{C) )} * (T_f - T_i) \text{ in } ^\circ\text{C}$

+

Phase Change (evap)  $mH_v = \text{mass (kg)} * \text{HeatVaporization (J/kg)}$  OR  
(melt)  $mH_f = \text{mass (kg)} * \text{heatFusion (J/kg)}$

+

Work? =  $F\Delta D$  or  $P\Delta V$  (Pressure in  $\text{N/m}^2 * \text{Volume Change in } \text{m}^3$ )

Two Objects together

Heat Given Off = Heat Taken In

