Write the formulas for <b>% error</b> , <b>standard heat of reac-</b> <b>tion</b> , <b>heat absorbed/released</b> , <b>Gibb's Free Energy</b> , and <b>ΔT</b> . Also write the formula for converting <b>calories to</b> <b>Joules</b>		nd	Draw a chart showing the relationship between Gibbs free energy, $\Delta H$ , $\Delta S$ , $\Delta T$ , spontaneity, and direction ( $K_{eq}$ )	Write the formulas for pH, pOH, $[H^+]$ , $[OH^-]$ , pH + pOH, $[H^+][OH^-]$ and the MV equation.	
Provide the names and units for the variables:	Complete p.531 #32b in text. Show all formulas, work & units		Explain 4 different ways entropy may increase or decrease using words and/ or diagrams.		
$C_p$ , $C_p$ for water, q, m, $\Delta H$ , $\Delta S$ , $\Delta T$ , $\Delta G$ , Heat of Fusion, and Heat of Vaporization	Show all formulas, work &		Draw a complete heating curve dia- gram. Label all the phases, the phase changes, and the axes.	Use a diagram to show the differences be- tween exothermic and endothermic. Include	
Explain the difference between heat of for- mation, heat of reac- tion, and heat of solu- tion	Complete p.535 #55c in text. Show all formulas, work & units.	an the act	aw and label both an exothermic and endothermic enthalpy diagram. Label e axes, energy of the products and re- tants, the ΔH, activation energy, and tivated complex.	the side of the equa- tion heat is on, wheth- er the sign is positive or negative, the system vs. surroundings.	

Complete in any direction. Use colors, highlighters, etc. Make sure writing is neat and legible.

Provide the names and units for: [H+] and molar mass		-	k acids and bases, neutral solu drogen/hydroxide ions on the s	-			
Complete p.601 #16 in text. Show all formu- las, work & units.	Complete p.625 #48a in text. Indicate the donors and acceptors, and label the conjugate acid-base pairs.						
Complete p.616 #33 in text. Show all formu- las, work & units. Complete p.625 #56a in text. Show all for- mulas, work & units.	Write a balanced neutralize equation. Label the acid, t and the salt.		Complete p.677 #13. Show all work and units. Indicate whether the reaction is spontaneous or not.	Complete p.659 #70c. Show all formulas, work & units.			
	Provide the symbols and units for the variables: Coulomb, ampere, volt- age, and standard half- cell potential.	tion. India reduced;	example of a redox reac- cate what is oxidized and also identify the oxidiz- and the reducing agent. work.	Draw a voltaic cell. Label the anode, cathode, salt bridge, and direction of electron flow. Indicate where oxidation occurs and where reduction oc- curs.			
	Explain the differences bet us acids & bases and Lewis		eni-List 3 indicators and ases.their colors in acids and bases.				

Complete in any direction. Use colors, highlighters, etc. Make sure writing is neat and legible.