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It introduces the concept of 'entropy' or 'disorder' or 'randomness' to predict the spontaneous occurrence of chemical reactions. The third law of thermodynamics relates, among other things, to the experimental approach to absolute zero. Thermodynamics is a powerful tool for chemists.

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Pomona

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A system which can exchange both energy and matter with its surroundings. A system which permits passage of energy but not mass, across its boundary. A system which can neither exchange energy nor matter with its surrounding. Part of the universe other than system, which can interact with it.

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laws of Thermodynamics govern the behaviour of these quantities.

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Thermodynamics is the study of the energy, principally heat energy, that accompanies chemical or physical changes. Some chemical reactions release heat energy; they are called exothermic reactions, and they have a negative enthalpy change. Others absorb heat energy and are called endothermic reactions, and they have a positive enthalpy change.

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Thermodynamic relationships determine the equilibrium composition of product mixtures resulting from chemical reaction. The nature of the product species, their proportions, their temperature, and their pressure depend upon three major controlling factors.

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2. 2 Thermochemistry study the energy effect of chemical  
reaction Chemical reaction energy changes are utilized to :  
Calculate the heat balance of industrial processes; Determine  
the energy of bonds; Establish the direction of processes.

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