Unit #2 Regents Chemistry

Energy

Text	Unit Objectives:
17.1	1. Build an understanding of the concept of heat and work
17.1	2. Be able to differentiate between kinetic and potential energy. Should also know the units used to measure energy
17.1	3. Must know the law of conservation of energy
3.2 17.1	4. Know the difference between heat and temperature. Also learn the fixed points on a thermometer.
17.2	5. Must know the use of calorimeter as well being able to use the equation for heat transfer. Heat Transferred = (mass of water)(change in temperature)(specific heat)
17.3	6. Be able to do calculations using both heat of fusion and heat of vaporization.
17.2	7. Be able to differentiate between a chemical reaction that is exothermic and one that is endothermic.
17.3	8. Understand the energy changes involved in a phase change and be able to create and read a phase diagram.

Essential Vocabulary

Absolute Zero, Average Kinetic Energy, Boiling Point, Calorimeter, Celsius Scale, Condensation, Endothermic Reaction, Energy, Evaporation, Exothermic Reactions, Freezing Point, Ground State, Heat, Heat of Fusion, Heat of Vaporization, Kelvin Scale, Kilojoules, Kinetic Energy, Melting Point, Potential Energy, Specific Heat Capacity, Sublimation, Temperature, Thermometer

Announcements: