

# Download Experiment 10 Factors Affecting Rate Of Reaction

A general rule for most (not all) chemical reactions is that the rate at which the reaction proceeds will approximately double for each 10°C increase in temperature. Once the temperature reaches a certain point, some of the chemical species may be altered (e.g., denaturing of proteins) and the chemical reaction will slow or stop. In nearly all cases, the rate of a reaction increases with increasing temperature. A rule of thumb for many reactions: Each time the temperature is increased by 10 °C, the rate of the reaction doubles! This temperature effect can be extremely powerful. Consider a reaction conducted at room temperature (20 °C) versus the same reaction run at 90 °C. What factors affect the rate of a reaction? Factors Affecting the Rate of Reaction: The rate of a chemical reaction can be altered by changing the reacting conditions. There are five factors that affect the rate of a reaction: Total surface area of a solid reactant or particle size of a solid reactant Concentration of [...]

Experiment 10: Experimental Factors That Affect Reaction Rate & Chemical Equilibrium Brooke Rixon Taylor Massey Lab Section: C November 13, 2012 Abstract: These experiments were done to test how each factor affects the rate of a chemical reaction, the nature of the reactants, concentration, temperature, surface area and when a catalyst is present.