

Download Experiment 10 Factors Affecting Rate Of Reaction

10. Factors Affecting the Rate of a Chemical Reaction What you will accomplish in this experiment You'll investigate two of the four factors that affect the rate of a chemical reaction. Specifically, you'll study the impact of:

- Increasing the concentration of each reactant (increasing the number of moles of reactant per liter of solution).

Many factors impact reactions such as nature of the reactants, concentration, surface area, temperature and catalysts. The nature of reactants can be tested using magnesium metal and five acids, acetic, hydrochloric, nitric, phosphoric, and sulfuric acid. There are 4 factors that can affect the rate of a reaction, namely the total surface area of the reactant (solid only) the concentration of the reactant (solution only) the temperature of the reactant presence of catalyst in the reactant the pressure of the reactant (gas only) Total Surface Area For same amount of reactant, particles with smaller size has bigger total surface ... In this experiment, two colourless solutions are mixed to make a solution which becomes dark blue. Changing the concentration or temperature of the solutions changes the time required for the blue colour to develop.