

# 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.

Factors That Affect Rate.

1. Physical state of the reactants and surface area. If reactant molecules exist in different phases, as in a heterogeneous mixture, the rate of reaction will be limited by the surface area of the phases that are in contact. For example, if a solid metal reactant and gas reactant are mixed,...

The effects of the factors affecting reaction rates were observed in five separate parts of the procedure. The first factor to be tested was the nature of the reactants. Two test tubes were labelled as A and B.