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Answers

# **Factors Affecting Reaction Rates Study Guide Answers**

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## **Factors Affecting Reaction Rates**

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## Factors Affecting Reaction Rates

### **Study**

1: Temperature: The higher the temperature of a reaction, the faster the reaction happens because the time taken for the reaction to happen decreases.

2: Concentration: As concentration of reactants increases, time taken for the reaction decreases therefore the rate increases.

**Factors affecting**

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Factors That Affect the Chemical Reaction Rate Concentration of Reactants. Similarly, a higher concentration of products tends to be associated with a lower reaction...

Temperature. Usually, an increase in temperature is accompanied by an increase in the reaction rate. Temperature is a... Medium or ...

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## **Factors That Affect the Chemical Reaction Rate**

Reaction rates can be affected by several factors, including concentration, temperature, surface area and presence of a catalyst. Increasing concentration increases the number of effective...

## **Rate of a Chemical Reaction: Modifying**

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## Factors Affecting Reaction Rates

Discussing in detail about the factors affecting the rate of reaction, order, molecularity, rate constant and its units. Learn Videos.

Understand Rate Law with example. 12 min.  
Effect of concentration and nature of reactants and products on the rate of reaction. 4 min.

### **Factors Influencing Rate of a Reaction**

Factors Affecting



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## Factors Affecting Reaction Rates

Introduction: In this exercise, we will study the effect of

concentration and temperature on the reaction of iodide ion with hydrogen

peroxide:  $\text{H}_2\text{O}_2 + 2\text{I}^- + \text{H}^+ \rightarrow \text{I}_2 + 2\text{H}_2\text{O}$

The iodine generated in the above reaction will become iodide ion by thiosulfate ions ( $\text{S}_2\text{O}_3^{2-}$ ):  $\text{I}_2 + 2\text{S}_2\text{O}_3^{2-} \rightarrow 2\text{I}^- + \text{S}_4\text{O}_6^{2-}$

Once all the thiosulfate

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is consumed, iodine will form a complex with starch present in the solution and the solution will turn blue.

## **W10 - Reaction Rates.docx - Factors Affecting Reaction**

...

Start studying Factors affecting the rate of chemical reaction. Learn vocabulary, terms, and more with flashcards, games, and other study tools.

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## **Factors affecting the rate of chemical reaction Flashcards**

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Factors that influence the reaction rates of chemical reactions include the concentration of reactants, temperature, the physical state of reactants and their dispersion, the solvent, and the presence of a catalyst.

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## **2.2: Factors That Affect Reaction Rates - Chemistry LibreTexts**

The factors that affect the rate of a reaction areas follows. (i) Concentration of reactants (pressure in case of gases) (ii) Temperature (iii) Presence of a catalyst

**Mention the factors that affect the rate of a chemical ...**

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Gravity. How will increasing the surface area of one or more reactants affect the reaction rate of a system? Click card to see definition . Tap card to see definition . It will speed up the reaction.

### **Chemistry 5.02 Quiz: Factors Affecting Reaction Rates ...**

The physical state of reactants, number of reactants, complexity

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## Factors Affecting Reaction Rates

of reaction and other factors highly influence the reaction rate as well. The rate of reaction is generally slower in liquids when compared to gases and slower in solids when compared to liquids. Size of the reactant also matters a lot.

### **Rate of Reaction - Definition and Factors Affecting ...**

16.2 Factors Affecting  
Reaction Rates MAIN

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Idea Factors such as reactivity, concentration, temperature, surface area, and catalysts affect the rate of a chemical reaction. 16.3

## Reaction Rate Laws

MAIN Idea The reaction rate law is an experimentally determined mathematical relationship that relates the speed of a reaction to the

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## Factors Affecting Reaction Rates

### **Chapter 16: Reaction Rates**

an increase of temperature increases the kinetic energy of the reactant species bringing about an increase in the frequency of collisions, at higher temperature more reactant species have the required energy of activation. Both of these factors increase the rate when a temperature is increased.



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## **Which Factors Affecting the Rates of Reaction? - QS Study**

Examples include: pH  
(acid - base reactions)  
Conductivity (reactions  
with electrolytes)  
Mass/volume (reactions  
involving gases) Colour  
(reactions with  
transition metals or  
other colored  
compounds) To  
measure reaction rate,  
plot concentration vs

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time graph.

**6.1 Collision theory  
and rates of reaction  
- IB Alchemy**

A negative catalyst increases the activation energy of reaction by forming a new intermediate of high energy, i.e., by changing the reaction mechanism. Due to increased activation energy, some active molecules become inactive, therefore,

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rate of reaction decreases. Let 'p' denote presence of catalyst and 'a' denote absence of catalyst.

## **Factors Affecting Rate of Reaction - Study Material for ...**

In contrast, reactions between molecules that require covalent bonds to be broken tend to proceed very slowly. Therefore, certain structural characteristics of the

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## Factors Affecting Reaction Rates

reactant molecules, such as bond polarity, geometry, overall size and orientation influence the rate of reaction.

### **Factors Influencing the Rate of Reaction:**

#### **Explanation ...**

Here are the factors that affect the rate law of reaction: 1. The concentration of the reactants: Increasing the concentration of

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reactants increases the rate of reaction. 2.

Temperature ...

## **What are the factors that affect the rate law ... - Study.com**

There are many more factors that contribute and determine the ultimate fate of a chemical reaction. A systematic study of all the multifarious factors that affect the rate and outcome of a chemical reaction, constitutes

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Explaining the Factors  
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