

Collision Theory

Vocabulary: activated complex, catalyst, chemical reaction, concentration, enzyme, half-life, molecule, product, reactant, surface area. Click [here](#) to see academic vocabulary with definitions

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. Suppose you added a spoonful of sugar to hot water and another to ice-cold water. Which type of water will cause the sugar to dissolve more quickly?

hot water

2. Suppose you held a lighted match to a solid hunk of wood and another match to a pile of wood shavings. Which form of wood will catch fire more easily?

the shavings

Gizmo Warm-up

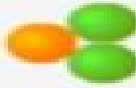
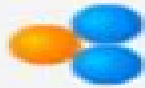
A **chemical reaction** causes the chemical compositions of substances to change. **Reactants** are substances that enter into a reaction, and **products** are substances produced by the reaction. The *Collision Theory Gizmo* allows you to experiment with several factors that affect the rate at which reactants are transformed into products in a chemical reaction.



Open the [Collision Theory Gizmo](#). Remember to login so the Gizmo does not log you off.

You will need blue, green, and orange markers or colored pencils for the first part of this activity.

1. Look at the key at the bottom of the SIMULATION pane. Use the snipping tool to take pictures of the two reactants and two products of this chemical reaction. Insert the pictures in the table below:

Reactants:	Products:
Reactant A  Reactant B 	Product A  Product B 

2. With the initial parameters not changed click **Play** (▶) and observe what you see for the first 4 minutes (note that these are "simulation minutes" and not our minutes) and then pause the simulation. Describe the

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Liying Dong

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

All Gizmo Answers Key Collision Theory:

Whispering the Secrets of Language: An Mental Quest through **All Gizmo Answers Key Collision Theory**

In a digitally-driven world where monitors reign supreme and quick connection drowns out the subtleties of language, the profound techniques and mental subtleties hidden within phrases frequently go unheard. However, nestled within the pages of **All Gizmo Answers Key Collision Theory** a interesting literary prize pulsing with fresh thoughts, lies an exceptional quest waiting to be undertaken. Published by an experienced wordsmith, this enchanting opus invites readers on an introspective trip, softly unraveling the veiled truths and profound influence resonating within the fabric of each word. Within the mental depths with this moving review, we shall embark upon a heartfelt exploration of the book is key subjects, dissect their charming publishing type, and fail to the effective resonance it evokes deep within the recesses of readers hearts.

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