

Name: 

 Date: 

## Student Exploration: Collision Theory

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** activated complex, catalyst, chemical reaction, concentration, enzyme, half-life, molecule, product, reactant, surface area

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

- 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?

The sugar in the hot water would dissolve more quickly.

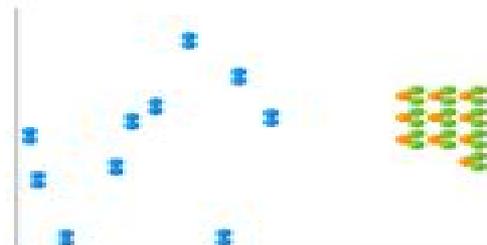
- Suppose you held a lighted match to a solid chunk of wood and another match to a pile of wood shavings. Which form of wood will catch fire more easily?

The pile of wood shavings would catch fire more easily.

### 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.

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



- Look at the key at the bottom of the SIMULATION pane. In the space below, draw ( ) the two reactants and two products of this chemical reaction.

**Reactants:**



**Products:**



- Click **Play** ( ). What do you see?

# Student Exploration Collision Theory Gizmo Answers

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**Student Exploration Collision Theory Gizmo Answers:**

## Reviewing **Student Exploration Collision Theory Gizmo Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Student Exploration Collision Theory Gizmo Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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