

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.

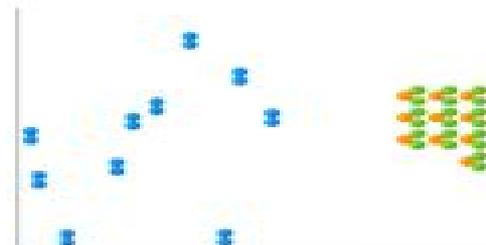
- Suppose you held a lighted match to a solid chunk of wood and another match to a pile of wood shavings. Which form of wood will catch fire more easily?

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

L I Schiff



Student Exploration Collision Theory Gizmo Answers:

Collision Theory Marvin L. Goldberger,1964 *Collision Theory* Teimuraz Kopaleishvili,1995 This book gives a systematic description of collision theory within the framework of non relativistic quantum mechanics However the final expressions obtained can also hold for particles with spin and under relativistic conditions The general theory is formulated for two elementary particles for the scattering of an elementary particle with a bound system of elementary particles and for the scattering process for a three particle system Faddeev s theory In addition the scattering problems are considered using exact and approximation methods **Atomic collision theory** B. H. Bransden,1970 **Topics in atomic collision theory** Sydney Geltman,1969 *Collision Theory [by] Marvin L. Goldberger [and] Kenneth M. Watson* Marvin L. Goldberger,Kenneth M. Watson,1964 *The Application of Variational Methods to Collision Theory* James Stanley Colton McKee,1956 *The Virial Theorem in Collision Theory* John David McWhirter,1973 **Notes on collision theory** L I Schiff,1938 **Non-relativistic Collision Theory. I. Review of Conventional Potential Scattering Theory** **One-dimensional Problems** Edward Gerjuoy,PLESSET (E H) ASSOCIATES INC SANTA MONICA CALIF.,1962
Spectroscopy and Collision Theory Kwang-zu Lu,1971

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