

Name: Yusef Thomas Date: _____
1/20/20

Student Exploration: Collision Theory

REQUIREMENTS: virtual marbles, collision theory of reaction, concentration, energy, ball pit, molecular models, masses, surface area

Prize Knowledge Questions (Use these BEFORE using the Gizmo.)

1. Suppose you added a spoonful of sugar to hot water and another to an cold water. Which type of water will cause the sugar to dissolve more quickly? The hot water
2. Suppose you held a lighter match in a cold bath of wood and another match in a pile of wood shavings. Which bath of wood will catch fire more easily? The shavings

Class Warm-up

Reactants are the chemical compositions of substances to change. **Products** 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 reactions are conducted into products in a chemical reaction.



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

1. Look at the top of the bottom of the MARBLE GIZMO page. In the space below, draw the two reactants and two products of this chemical reaction.



2. Click Play (▶) "What do you see?" Reactant A bounces around bumping into Reactant B which is on the right side vibrating against the side. When Reactant A succeeds in breaking the bonds of Reactant B the orange substance on Reactant B breaks off and bonds with Reactant A forming Product B, leaving two green substance molecules which are Product A.

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Wolfgang Guggemos



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