

Collision Theory - answers

Fill in the blanks using each of the words once.

energy	collide	catalyst	concentration	collision theory
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Particles can only react if they **collide** with enough **energy** for the reaction to take place. This is called the **collision theory**. There are four factors that can change the rate of a reaction; temperature, **concentration**, surface area and the use of a suitable **catalyst**.

Fill in the blanks in the text and complete the diagrams below using the words below:

reactants	fast	slow	energy	surface area
react	fast	slow	low concentration	fast
react	more often	collision	successful	slow
particles	factor	catalyst present	high concentration	large surface area

Temperature
Increasing the temperature will cause the particles to move **fast** with more energy. They will therefore **collide more often** and with greater **energy**. These two things mean there are more successful collisions per second and therefore a **faster** rate of reaction.

Concentration
Increasing the concentration of a reactant simply means there are more **particles** which may collide and so react. More collisions means a **faster** reaction.

Surface Area
Using a powder instead of a lump means **surface area** is greater, which means a greater area of reactant is exposed and so available for a collision. More collisions means a **faster** reaction.

Catalysts
Use of a suitable catalyst means that the particles may react even if they collide with only **moderate** energy. This means more **successful** collisions are likely. Some catalysts work because one of the particles is fixed to a surface. This makes the chance of a **collision** more likely. More collisions means a **faster** reaction.

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Collision Theory Worksheet Answers. 1) Explain why all reactions have an activation energy, using your knowledge of collision theory. All reactions have an activation energy because energy is required to make the reactants combine in a way that will cause the reaction. No chemical process can take place without having at least a little energy to get things started.

Collision Theory Worksheet - mrphysics.org

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Collision theory is an important tool used by scientist. Use the quiz questions to check your understanding of processes involved in the collision theory and how scientists use this theory.

Quiz & Worksheet - Collision Theory | Study.com

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 ...

Student Exploration- Collision Theory (ANSWER KEY) by ...

This worksheet helps students work with elastic collisions. First, the student is asked to distinguish between elastic and inelastic collisions. Then, the student is asked to draw a "before" picture and an "after" picture of an elastic collision and to solve the problem numerically. Finally, the

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