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## Student Exploration: Reaction Energy

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

**Vocabulary:** calorimeter, chemical bond, endothermic, enthalpy, exothermic, Hess's law

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

1. Two magnets are stuck together. What might you have to do to get them to separate?

To separate them, you would have to exert force and energy.

2. Suppose you held two magnets a short distance apart, then let go. What would happen?

Due to their mutual attraction, the two magnetics would move towards one another and become bonded.

3. Think about the magnets in terms of energy. In which case do you increase the potential energy of the magnets? In which case do you increase the kinetic energy of the magnets?

Use a more magnetic material if you want to boost the magnetic potential energy. However, you can employ more fields to boost the magnetics' kinetic energy.

### Gizmo Warm-up

Just like magnets, atoms of different elements are attracted together to form **chemical bonds**. Breaking these bonds requires energy. When a new bond forms, energy is released and temperatures rise. In the *Reaction Energy* Gizmo, you will explore how the energy of chemical bonding relates to temperature changes that occur during chemical reactions.



To begin, check that **Reaction 1** and **Forward** are selected. In this reaction, hydrogen ( $\text{H}_2$ ) and oxygen ( $\text{O}_2$ ) react to form water ( $\text{H}_2\text{O}$ ). The reaction takes place inside a device called a **calorimeter**. Inside the calorimeter, a small chamber holds the reactants. The rest of the calorimeter is filled with water.

1. Click **Play** (▶). What happens?

Atoms of hydrogen and oxygen were floating around in the container. The oxygen atom and hydrogen atom collided to form  $\text{H}_2\text{O}$  (water). Only  $\text{H}_2\text{O}$  atoms remained at that time.

2. How does the temperature change?

It rises from 21 to 27.4 degrees Celsius.

# Reaction Energy Section Answer Key

**Rona R. Ramsay, Giuseppe Di Giovanni**

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

## Reaction Energy Section Answer Key:

**Quark Matter** Helmut Satz, Hans J. Specht, Reinhard Stock, 2012-12-06 From the Editors Preface Quark Matter 1987 was attended by about 250 scientists representing 75 research institutions around the world the scientific community engaged in experimental and theoretical studies of high energy nuclear collisions The central theme of the meeting was the possibility of achieving extreme energy densities in extended systems of strongly interacting matter with the ultimate aim of creating in the laboratory a deconfined state of matter a state in which quarks and gluons attain the active degrees of freedom High energy accelerator beams and cosmic radiation projectiles provide the experimental tools for this endeavour on the theoretical side it is intimately connected to recent developments in the non perturbative study of quantum chromodynamics Phase transitions between hadronic matter and quark gluon plasma are of basic interest also for our understanding of the dynamics of the early universe A very special feature of this Sixth Quark Matter Conference was the advent of the first experimental results from dedicated accelerator studies These were conducted during 1986 87 at the AGS of Brookhaven National Laboratory and at the CERN SPS An intense discussion of these data formed the main activity of the meeting

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**Thermal Safety of Chemical Processes** Francis Stoessel, 2021-05-24 Vollständig bearbeitete aktualisierte 2 Auflage mit fünf neuen Kapiteln und den aktuellen IUPAC Normen Beschäftigt sich mit thermischen Risiken in der chemischen Prozessindustrie Jedes Kapitel beginnt mit einer Fallstudie und den aus Zwischenfällen gewonnen Erkenntnissen

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*Energy Production and Storage* Robert H. Crabtree, 2013-02-19 Energy production and storage are central problems for our time In principle abundant energy is available from the sun to run the earth in a sustainable way Solar energy can be directly harnessed by agricultural and photovoltaic means but the sheer scale of the energy demand poses severe challenges for example any major competition between biomass production and food production would simply transfer scarcity from energy to food Indirect use of solar energy in the form of wind looks also promising especially for those regions not blessed with abundant sunlight Other modes such as tidal and wave energy may well become important niche players Inorganic chemistry plays a decisive role in the development of new energy technologies and this Volume covers some promising modes of alternative energy production and storage that minimize the atmospheric burden of fossil derived carbon monoxide No one production or storage mode is likely to dominate at least at first and numerous possibilities need to be explored to compare their technical feasibility and economics This provides the context for a broad exploration of novel ideas that we are likely to see in future years as the field expands This Volume covers a wide range of topics such as Water splitting only water is a sufficiently cheap and abundant electron source for global exploitation Energy conversion by photosynthesis Molecular catalysts for water splitting Thermochemical water splitting Photocatalytic hydrogen production Artificial photosynthesis progress of the Swedish Consortium Hydrogen economy Reduction of carbon dioxide to useful fuels

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**Structure-Based Drug Design for Diagnosis and Treatment of Neurological Diseases** Rona R. Ramsay, Giuseppe Di Giovanni, 2017-03-24 European Cooperation in Science and Technology COST supports the collaboration of nationally funded science and technology research through the creation of networks COST is the longest running European framework enhancing cooperation among researchers engineers and scholars across Europe The COST Action CM1103 Structure based drug design for diagnosis and treatment of neurological diseases dissecting and modulating complex function in the monoaminergic systems of the brain is a good example of the advances possible through interdisciplinary collaboration on difficult problems COST Action CM1103 brought together 28 research groups from 18 countries to collaborate for four years on multi target drug design for complex neuropathologies The interdisciplinary expertise of the members spans the range from computational enzymology to human studies providing outstanding opportunities for the interdisciplinary development of trainees and is reflected in the articles in this e book This Research Topic covers progress in multi target drug design for the complex neuropathologies of the monoamine system that are apparent for example in Alzheimer's disease After a mini review to introduce the topic of multi target drug design the other articles review the Research topic from their own perspective two from computational approaches three from medicinal chemistry two from molecular pharmacology and two from studies in whole brain This multi faceted approach describes new compounds new methodology and advances in the basic science of understanding the brain This Ebook is based upon work from COST Action CM1103 Structure based drug design for diagnosis and treatment of neurological diseases dissecting and modulating complex function in the monoaminergic systems of the brain supported by COST European Cooperation in Science and Technology COST European Cooperation in Science and Technology is a pan European intergovernmental framework Its mission is to enable break through scientific and technological developments leading to new concepts and products and thereby contribute to strengthening Europe's research and innovation capacities It allows researchers engineers and scholars to jointly develop their own ideas and take new initiatives across all fields of science and technology

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