

Name: _____

Date: _____

Student Exploration: Chemical Changes

Vocabulary: acid, base, catalyst, chemical change, coefficient, conservation of matter, decomposition, dissolve, double replacement, endothermic, exothermic, indicator, ion, physical change, product, reactant, single replacement, subscript, synthesis

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



1. A student mixes baking soda and vinegar in a glass. The results are shown at left. Do you think any new substances are being created in this mixture? If so, how do you know?

Yes, because, as shown in the image, there are bubbles, therefore gas is being released, which are characteristics of a chemical change.

2. Suppose this was done on top of a balance. Do you think the mass would change as the reaction proceeded? *yes*

3. What do you think would happen to the mass if the reaction took place inside a sealed plastic bag?

Then, the mass would not change, because the gases being released in the reaction are being collected

Gizmo Warm-up

A **chemical change**, (or chemical reaction) occurs when one or more substances, called **reactants**, are transformed into different substances, or **products**. In the *Chemical Changes Gizmo*, you will look for evidence of chemical changes by looking at changes you can see, touch, or smell.

To begin, check that **Reactant 1** is **Sodium** and **Reactant 2** is **Water**. Sodium is a metal so soft you can cut it with a knife.



1. Click Play (▶). What do you observe?

Experiment A5 Evidence For Chemical Change Answer Key

Edward P. Ortleb, Richard Cadice



Experiment A5 Evidence For Chemical Change Answer Key:

Physical and Chemical Changes (ENHANCED eBook) Edward P. Ortleb, Richard Cadice, 1993-09-01 This book presents a program of basic studies in physical and chemical changes of matter. The definition of matter is presented along with explanations of states and properties of matter. Topics include atoms, molecules, elements, compounds, mixtures, solutions, symbols, and formulas. Each of the twelve teaching units in this book is introduced by a color transparency, print books, or PowerPoint slide eBooks that emphasize the basic concept of the unit and presents questions for discussion. Reproducible student pages provide reinforcement and follow-up activities. The teaching guide offers descriptions of the basic concepts to be presented, background information, suggestions for enrichment activities, and a complete answer key. [Experimental Chemistry for Junior Students](#) James Emerson Reynolds, 1887

Many More of Janice VanCleave's Wild, Wacky, and Weird Chemistry Experiments Janice VanCleave, 2017-12-15 In a series of fun and involving hands-on chemistry experiments, kids learn how to measure the volume of melted snow, determine the weight of water, and demonstrate the effect that cold temperatures have on air density. They will also demonstrate how the density of different liquids varies, construct a hydrometer, demonstrate the cohesive force of water, and show how a chemical reaction can create heat. Featuring color illustrations and safe, simple, step-by-step instructions, Janice VanCleave shows just how much fun science can be.

The Top Books of the Year Experiment A5 Evidence For Chemical Change Answer Key The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year.

Experiment A5 Evidence For Chemical Change Answer Key : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph.

Experiment A5 Evidence For Chemical Change Answer Key : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery.

Discover the Magic : Delia Owens' "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting.

These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered.

The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts.

The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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