

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?

# Student Exploration Chemical Changes Answer Key

**JR Anderson**



## Student Exploration Chemical Changes Answer Key:

A Constructivist Approach to Exploring Physical and Chemical Changes in the Junior High Science Classroom Keith Alan Morris,1998     *Top Shelf* David E. Newton,2004     Integrating Digital Technology in Education R. Martin Reardon,Jack Leonard,2019-05-01 This fourth volume in the Current Perspectives on School University Community Research series brings together the perspectives of authors who are deeply committed to the integration of digital technology with teaching and learning Authors were invited to discuss either a completed project a work in progress or a theoretical approach which aligned with one of the trends highlighted by the New Media Consortium s NMC CoSN Horizon Report 2017 K 12 Edition or to consider how the confluence of interest and action Thompson Martinez Clinton Section 2 includes three chapters that focus on the instructor in the classroom preservice teacher preparation and pedagogy Section 3 includes four chapters that focus on building the academic proficiency of students and Section 4 includes two chapters that focus on the design and benefits of school university community collaboration     **Teacher's Manual and Resource Guide for Exploring the Sciences** Herbert Drapkin,1964     *Bulletin of the Atomic Scientists* ,1961-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world     *Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science* ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction     **MSCEIS 2019** Lala Septem Riza,Eka Cahya Prima,Toni Hadibarata,Peter John Aubusson,2020-07-30 The 7th Mathematics Science and Computer Science Education International Seminar MSCEIS was held by the Faculty of Mathematics and Natural Science Education Universitas Pendidikan Indonesia UPI and the collaboration with 12 University associated in Asosiasi MIPA LPTK Indonesia AMLI consisting of Universitas Negeri Semarang UNNES Universitas Pendidikan Indonesia UPI Universitas Negeri Yogyakarta UNY Universitas Negeri Malang UM Universitas Negeri Jakarta UNJ Universitas Negeri Medan UNIMED Universitas Negeri Padang UNP Universitas Negeri Manado UNIMA Universitas Negeri Makassar UNM Universitas Pendidikan Ganesha UNDHIKSA Universitas Negeri Gorontalo UNG and Universitas Negeri Surabaya UNESA In this year MSCEIS 2019 takes the following theme Mathematics Science and Computer Science Education for Addressing Challenges and Implementations of Revolution Industry 4 0 held on October 12 2019 in Bandung West Java Indonesia     **Christian Home Educators' Curriculum Manual** Cathy Duffy,1995 The premiere guide for choosing homeschool curriculum For beginners or veterans Cathy helps you wade through the curriculum jungle to choose what s right for each of your children Reviews of hundreds of books games videos computer

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