



Name:

Date:

Chemical Changes

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

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

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?

The water quickly fizzed and dissolved the sodium

2. Do you think a chemical reaction has taken place? Explain.

It caused fizzing and a color change within the water itself, the sodium also dissolved into the water.

Activity A:

Observing chemical changes

Get the Gizmo ready:

- Click **Reset** (↺). Check that the reactants are still **Sodium** and **Water**.
- Turn on the **Label reactants** checkbox.



Introduction: It is important to distinguish chemical changes, in which new substances are formed, from **physical changes**, which do not create new substances. In this activity, you will look at many kinds of evidence that chemists use to see if a chemical change has taken place.

Question: What kinds of evidence indicate a chemical change has taken place?

Describing Chemical Change Answer Key

John T. Moore, Richard H. Langley



Describing Chemical Change Answer Key:

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