

Irreversible Changes and Chemistry

materials

What you need: baking soda (bicarbonate of soda) · white vinegar · small clear plastic bottle or sturdy clear cup · balloon · plastic tray · teaspoon or small scoop · iron nails (clean) · clear jars or containers with lids · cooking oil · tap water in a jug · Investigation Journal page

Words to use

Irreversible change · New material · Chemistry

Our question

When baking soda and vinegar mix, is a new material made, and can the change be undone?

I predict...because...

Words to sort

melting ice · freezing water · melting chocolate then letting it set · dissolving salt then evaporating the water · baking soda mixed with vinegar · rusting iron (old gate or bike chain) · toasting bread · cooking an egg

Group each change as reversible (can be undone) or irreversible (cannot be undone; a new material may have been made).

reversible	irreversible

Draw and label what you see

Labels I used





Lesson 11

Which evidence did your group choose first, and what did it show?



What evidence shows a new material was made?



Could you get the dry baking soda and vinegar back as they were?

