

Irreversible Changes

Spot the new substance

An irreversible change makes a new substance and cannot easily be undone. Look for the signs that tell you a new substance has formed.

Wear safety goggles for the vinegar and bicarbonate of soda. Do not taste anything.

Q1. Mix the vinegar and bicarbonate of soda (goggles on!). Record what you observe.

Q2. Which signs of a chemical change did you see? Tick all that apply and add detail.

- A. A colour change
- B. A gas (bubbles or a smell)
- C. Heat or light given off
- D. A new material that won't change back

Q3. Explain why this is an irreversible change.

Q4. Classify each change as reversible or irreversible, and give a reason.

Change	Reversible or irreversible?	Reason
Rusting a nail		
Freezing water		
Toasting bread		
Tearing paper		