

Reversible and irreversible changes

materials

What you need: plain chocolate pieces (allergy-checked, small squares) · chilled plates or saucers for re-hardening chocolate · clean spoons or spatulas for moving chocolate (not palms) · cups of warm hand-safe water with lids for gentle chocolate warming (teacher-prepared) · table salt · labelled pre-dried salt samples ("salt came back") · clear plastic cups or beakers · water in small jugs · dark paper or dark plates for drying salt drops · baking soda (bicarbonate of soda) · white vinegar · teaspoons and tablespoons · plastic trays for stations (two of each station type) · sliced bread for toast demo · toaster or toaster oven (teacher only) · paper towels · Investigation Journal page

Words to use

Reversible change · Irreversible change · Evidence

Our question

Which of these changes can we undo, and which make something new?

I predict...because...

Words to sort

chocolate melt then cool · salt dissolve then dry · baking soda with vinegar · toasting bread

Sort each change as reversible (can be undone, same material back) or irreversible (makes something new, cannot be undone).

reversible	irreversible

Which changes gave the same material back?

Which changes made something new?

What evidence did you use?