

# Heating and cooling: reversible or not?

materials

**What you need:** ice cubes · plain chocolate squares · small clear dishes or yoghurt pots · shallow tray of warm water · cool saucers or plates · white bread slice · toaster · heatproof plate · paper towels or cloths for spills · Investigation Journal page

Words to use

Reversible change · Irreversible change · Melting

Our question

What happens to ice and chocolate in a warm-water bath, and can those changes be reversed?

I predict...because...

How to judge melted enough

Or chocolate cool-back clues)

Did both materials melt?

Which changed faster?

Do you think each change can be undone? Why? (Ice reverse: inferred from known freezing. Chocolate reverse: cool-back clues you saw.)

