Additional activity ideas

Ice cube rescue mission

Resources you will need: Ice cubes, small containers, a range of materials (foil, fabric, bubble wrap, paper, wool), timers.

Task: Children wrap identical ice cubes in different materials and measure how long each takes to melt.

This will help the children to compare thermal insulators, understand heat transfer from warm surroundings, and link findings to real-world cooling (lunchboxes, ice packs).

Hot vs cold – packaging hunt



Resources you will need: Clean packaging (pizza boxes, foil trays, cool bag liners, takeaway cups), property word mats.

Task: Children examine packaging designed to keep things hot or cold and identify which properties make them effective.

This will help the children to apply scientific vocabulary to real products and recognise how insulation is used in everyday life.

Design an insulated house

Resources you will need: Cardboard boxes, scrap materials (bubble wrap, fabric, foil, paper), thermometers, hot water bottles or warm rice socks.

Task: Children build a model house and test which insulation materials keep the inside warm for longest.

This will help the children to understand how insulation reduces heat loss and link science to sustainable home design.



Persuasive letter - Choose my cup sleeve!

Resources you will need: Writing frames, sentence starters, results tables from the investigation.

Task: Children write a persuasive letter to a cafe owner recommending the best sleeve material, using evidence from their test.

This will help the children to use scientific evidence to justify decisions and practise persuasive writing linked to real-world design.