

Properties and the right material for a job

materials

What you need: assorted material samples (foil, paper, card, cloth scraps, plastic bag pieces, bubble wrap, kitchen towel, string) · shallow water tray · spoon for water tests · paper towels for sandwich stand-ins and spills · hard-boiled egg (or raw egg if preferred) · folded cloth or towel drop zone · small identical weights (coins in bags, metal washers, or small books) · card bag shell or stiff card frame for handle tests · job cards with fair-test starter (keep a sandwich dry; protect a fragile egg; make a strong bag handle) · blank property label cards or sticky notes

Words to use

Property · Material · Match to the job

Our question

Which materials are best for our job, and which properties make them work?

I predict...because...

Words to sort

foil · paper · card · cloth · plastic bag · bubble wrap · kitchen towel · string

Group materials by the properties that matter for your group's job, using evidence from your tests

Group 1	Group 2	Group 3

Our choice: finish the sentence

We chose _____ because _____.

Which material would you choose for the job?

Which property made the biggest difference?

What evidence from your tests supports that choice?