

# Comparing properties

materials

**What you need:** soft everyday fabric item for the hook (cotton sock or tea towel) · stiff everyday plastic item for the hook (opaque plastic lunch box or bottle) · card strip (about 20 cm by 3 cm, cut from a cereal box or scrap card) · plastic sheet strip (cut from a clear document wallet or empty water bottle) · cotton cloth strip (about 20 cm by 3 cm) · aluminium foil strip (about 20 cm by 3 cm, folded once lengthways for strength) · 30 cm ruler · hardback book (to pin one end of each strip at the desk edge) · label stickers or masking-tape labels (card, plastic, cotton, foil) · pencil and scrap note for bend numbers · Investigation Journal page

Words to use

Property · Compare

Our question

Which of our materials bends the most, and how do they compare for see-through and strength when pulled?

I predict...because...

How far did each material bend? (in cm)

| Material | How far it bent (cm) |
|----------|----------------------|
|          |                      |
|          |                      |
|          |                      |
|          |                      |

Draw a bar chart of our results

Which material bent the most?

Which was most see-through?

How did the natural materials compare with the ones made by people?

Our bend ranks, most bendy to least bendy