

Sound: travelling and muffling sound

energy-forces

What you need: kitchen timer or phone with alarm (moderate volume) · assorted wrapping materials (tea towel or cloth, bubble wrap, newspaper, cardboard, cotton wool or foam packing) · metre stick or tape measure · elastic bands or sticky tape to hold wraps · Investigation Journal page

Words to use

Sound · Muffling · Soundproofing

Our question

Does the wrapping material change how muffled a timer sounds at a fixed distance?

I predict...because...

Sort these words into Change, Measure and Keep the same

the wrapping material · how muffled the sound is · the sound source · the listening distance · how tightly it is wrapped

Change – the ONE thing we change

Measure – the ONE thing we measure

Keep the same – to make it fair

Our comparison

Head each empty column with one thing you tested for, then fill in a row for each thing you tested.

What we tested				

Does each material already have a score or rank from the station?





Lesson 19

Have you kept what you heard separate from what you think it means?



Which material muffled the sound most in your group?

