

Fair-testing forces: design your own

energy-forces

What you need: toy car · stiff card or wooden board ramp (about 40–60 cm) · same-size books for stacking ramp height · metre stick or measuring tape · 1 cent coins or small pieces of modelling clay for adding weight · surface samples (carpet square, card, smooth tray) · chalk or masking tape for a start line

Words to use

Fair test · Variable we change · Average

Our question

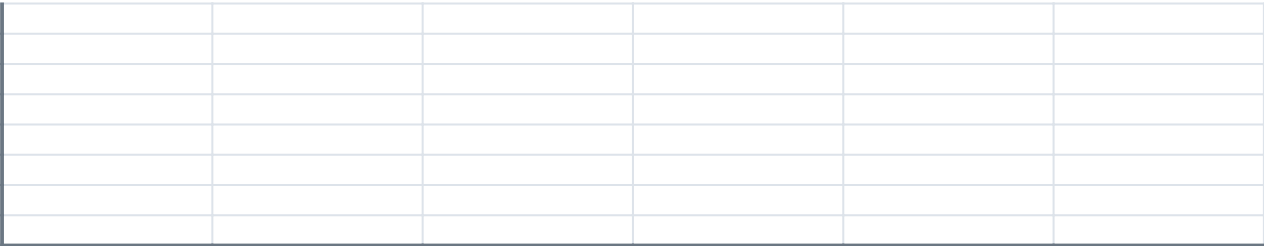
Does a heavier car roll further down the same ramp?

I predict...because...

Force fair-test results (in cm)

What we changed	Distance (cm)

Draw a bar chart of our results



Which bar is tallest? What does that tell us about the force?

Did taking an average change how you read the result?