## 1 of 2

## Can I convert between units?

## Teaching guidance

## Key vocabulary

kilometre, metre, centimetre, millimetre, kilogram, gram, litre, millilitre

## Models and images

Use the Converting measures spreadsheet and the Converting units of measures spreadsheet to practise and reinforce the conversion between different measures.


Converting measures spreadsheet


Converting units of measures spreadsheet

Use the Moving digits ITP to model the effect of multiplying and dividing by 10, 100 and 1000.


Moving digits ITP

## Teaching tips

- Link converting units of measures to estimating, in order to help children spot where they have made mistakes, for example, ' 1.5 m cannot equal 15 cm because I know 1.5 m is about my height but 15 cm is half the length of a ruler.'
- Build the rehearsal of converting units into oral and mental starter activities, and as a practical context in lessons focused upon calculation where children are multiplying and dividing by 10,100 and 1000 , for example, converting 1400 m and 200 m to kilometres.
- Ensure children can confidently multiply and divide numbers by 10,100 and 1000, including decimal numbers with decimal fractions.
- Use a counting stick to count, using equivalent measures, for example, ' 1000 grams is equivalent to 1 kilogram, 1100 grams is equivalent to 1.1 kilograms, 1200 grams is equivalent to 1.2 kilograms'.

- Explore the language of units, for example:
- roots from which 'centi' and 'milli' are derived and where else they are used (e.g. century, centurion);
- kilo as a prefix meaning 1000, hence one kilogram is equal to 1000 grams and one kilometre is equal to 1000 metres.
- Provide regular practical opportunities for children to learn and use the relationship between units in order to reinforce their knowledge and understanding.

