## Maths - Year 4

Numbers and the Number System 6: Introducing decimal fractions

|  | Key Vocabulary | Mathematical Skills <br> - Say a number that sits between two consecutive whole numbers on the number line. <br> - Express tenths of a whole as common fractions and decimal fractions. <br> - Explain that the value of a digit increases 10 times when moved one place to the left and decreases 10 times when moved one place to the right. <br> - Explain that the digit in the first decimal place represents the number of tenths. <br> - Show decimal fractions correctly using place value cards. <br> - Compare and order decimal fractions. <br> - Round decimal fractions to the nearest whole number. |
| :---: | :---: | :---: |
| Intervals | The distance between two points or the numbers between two values. |  |
| Tenth | One part of a whole that is split into ten equal pieces. |  |
| Decimetre | One tenth of a metre. |  |
| Decimal fraction | An amount represented as a decimal e.g. $1 / 2=0.5$ |  |
| Common fraction | An amount represented as a fraction. |  |
| Whole number | A positive number with no fraction or decimal part. |  |
| Decimal point | A point placed after the units figure in a decimal fraction. |  |

## Mathematical Methods

- Introducing decimals through measuring e.g. 1 m and $\frac{4}{10} \mathrm{~m} \quad=1.4$ metres.


Reading scales.


- Making connections with fractions on a number line e.g. half way between 2 and 3 is $2 \frac{1}{2}$

- Introducing decimal notation e.g. $1 / 2=0.5$ so $21 / 2=2.5$.
- Representing decimal fractions with Numicon shapes.

- Representing decimal fractions using place value cards and base-ten apparatus.

- Comparing decimal quantities.

- Ordering decimals in a list.

Rounding decimals e.g. 9.8 kg would round up to 10 kg .


## Can you..?

Find the missing number.


- Can you find 3 different ways of writing 2.8 kg ? You can use fractions or decimals.

Use < or > to fill in the empty boxes.
$0.5 \square 0.7$
$2.8 \quad 1.6$
$11.5-13.2$

