

New Bar Modelling content

We are pleased to confirm that we have published 10 new bar modelling lessons and homeworks.

Each homework gives you the option to assess your children's understanding of how to use bar modelling to solve various maths problems. As you'd expect, the accompanying lessons are always available if children want to reinforce their understanding or if they need the opportunity to build their fluency.

Bar multiplication

This lesson shows children how to use bar modelling to solve a variety of multiplication problems. The homework gives them the opportunity to put this method into practice.

Curriculum coverage: **Year 3 > Number – multiplication and division > objective 3**

Find it in **Library: Number: Multiplication and division** (English National Curriculum) or search '**bar**'

Bar division

This lesson shows children how to use bar modelling to solve a variety of division problems. The homework gives them the opportunity to apply this method.

Curriculum coverage: **Year 3 > Number – multiplication and division > objective 3**

Find it in **Library: Number: Multiplication and division** (English National Curriculum) or search '**bar**'

Bar multiplication and division

In this lesson children are reminded how to use bar modelling to solve multiplication and division problems. They will then go on to learn how to identify if a problem requires multiplication or division, and which type of bar model to use in each case.

Curriculum coverage: **Year 4 > Number – multiplication and division > objective 5**

Find it in **Library: Number: Multiplication and division** (English National Curriculum) or search '**bar**'

Modelling equivalent and non-equivalent fractions

This lesson explores comparing simple fractions using bar models, including using bar models to find equivalent fraction families. This lays a foundation for later work comparing fractions with different denominators.

Curriculum coverage: **Year 4 > Fractions > objective 1**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**Modelling**'

Comparing fractions 1 – bar model

This lesson explores using bar models to compare and order fractions by finding equivalent fractions. Pairs of fractions at this stage are limited to those where one denominator is a multiple of the other.

Curriculum coverage: **Year 5 > Number - fractions > objective 1**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**bar model**'

Comparing fractions 2 – bar model

This lesson builds upon the skills developed in 'Comparing fractions 1 – bar model'. Children are shown how to use bar models and common multiples to express fractions in the same denomination, and then compare them.

Curriculum coverage: **Year 6 > Number - fractions > objectives 1 and 2**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**bar model**'

Comparing mixed and improper fractions – bar model

This lesson builds upon the skills developed in 'Comparing fractions 2 – bar model'. Children extend their knowledge of equivalent fractions to include comparing mixed and improper fractions, using bar models.

Curriculum coverage: **Year 6 > Number - fractions > objectives 1 and 2**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**bar model**'

Modelling fractions and percentages

This lesson uses bar models to help children learn the percentage equivalents of simple fractions. Percentage equivalents for halves, quarters, fifths and tenths are explored.

Curriculum coverage: **Year 5 > Number - fractions > objectives 11 and 12**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**Modelling**'

Modelling percentages

This lesson shows children how to use bar models to calculate percentages of amounts. It covers strategies for finding 25%, 50%, 75% and multiples of 5%, 10% and 20%.

Curriculum coverage: **Year 6 > Ratio and proportion > objective 2**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**Modelling**'

Modelling percentage increase and decrease

This lesson guides children through finding percentage increases and decreases using bar models. This knowledge is then applied in order to compare values after a percentage increase or decrease.

Curriculum coverage: **Year 6 > Ratio and proportion > objective 2**

Find it in **Library: Number: Fractions** (English National Curriculum) or search '**Modelling increase**'