# Mathletics

## White Rose Maths (WRM) Spring Scheme of Learning, 2018

## Alignment with Mathletics

### Year 5 - Yearly Overview

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Autumn | Number – Place Value | | | Number – Addition and Subtraction | | Statistics | | Number – Multiplication and Division | | Perimeter and Area | | Consolidation |
| Spring | Number – Multiplication and Division | | | Number – Fractions | | | | | | Number – Decimals & Percentages | | Consolidation |
| Summer | Number – Decimals | | | | | Geometry- Properties of Shapes | | Geometry- Position and Direction | | Measurement- Converting Units | Measures Volume | Consolidation |

This alignment document has been based on the White Rose Maths (WRM) scheme of learning available on the TES website. It contains the alignment information for the Spring Scheme of Learning.

**Year 5**

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

## Contents

### Examples of alignment to Mathletics


Block 1 (Weeks 1–3) Number: Multiplication and Division ..... 01

Block 2 (Weeks 4–9) Number: Fractions ..... 05

Block 3 (Weeks 10–11) Number: Decimals and Percentages ..... 13


## Purpose:

The aim of this document is to support Mathletics teachers, who use the WRM schemes of learning, to make full use of the resources available within Mathletics. Whenever possible, activities, pages from the eBooks or learning experiences on Rainforest Maths have been matched to each of the small steps on the corresponding WRM scheme of learning.

In Mathletics, many eBooks are available in the student interface, however all eBooks are available to teachers through the teacher console. These topic-based eBooks contain practice and fluency exercises, along with application questions and games. Only a small selection of the relevant pages is contained in this document.

Links to Rainforest Maths, which can be found in the 'Play' area in the Mathletics student interface, have also been included. This resource has engaging visuals which work well on interactive whiteboards and gives pupils further opportunities to practise their learning online.

**Course selection:**
A specific Mathletics course has been created in alignment with the WRM scheme of learning. You may wish to set this course for your class/groups.

**England Yr 05 WRM Autumn and Spring Aligned**

Data-Driven Teaching and Learning

Differentiation

Feedback and Reflection

Student Growth

Blended Learning

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

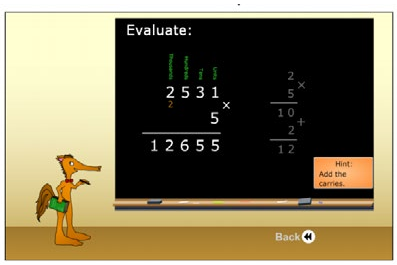
Alignment with Mathletics

## Examples of alignment to Mathletics

## Block 1 (Weeks 1-3) Number: Multiplication and Division

| National Curriculum Objectives | WRM Small Steps |
|---|---|
| ▸ Multiply and divide numbers mentally drawing upon known facts.<br>▸ Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.<br>▸ Divide numbers up to 4 digits by a one digit number using the formal written method of short division and interpret remainders appropriately for the context.<br>▸ Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign. | ▸ Multiply 4-digits by 1-digit<br>▸ Multiply 2-digits (Area model)<br>▸ Multiply 2-digits by 2-digits<br>▸ Multiply 3-digits by 2-digits<br>▸ Multiply 4-digits by 2-digits<br>▸ Divide 4-digits by 1-digit<br>▸ Divide with Remainders |

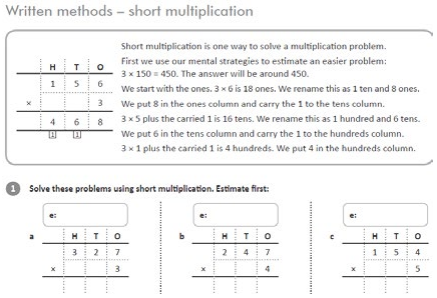
### Small step: Multiply 4-digits by 1-digit




**Topic:** Multiply and Divide

**Activity:** *Contracted Multiplication*

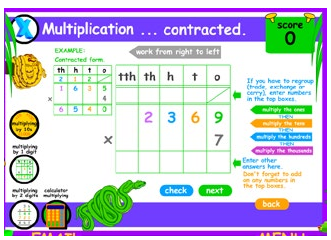
Pupils practise multiplying 2-, 3- and 4-digit numbers with a 1-digit number. Questions include exchanges in 1, 2 or 3 columns.




**eBook, F series: Multiplication and Division, page 24**

This activity models multiplying a 3-digit number by a 1-digit number. It asks pupils to estimate the answer first and then use short multiplication to complete the problem.

Further exercises also cover multiplication of 3-digit and 4-digit numbers by a 1-digit number.




**Rainforest Maths — Level G — Multiplication**

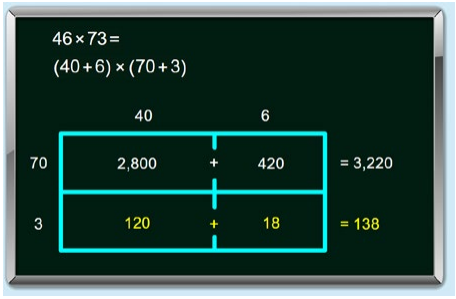
This activity shows contracted multiplication by a 1-digit number, working through to multiplying a 2-digit number. By clicking 'more', pupils are challenged with problems involving multiplication of 3-digit numbers by a 1-digit number, then progressing to 4-digit numbers by a 1-digit number.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

### Small step: Multiply 2-digits (Area model)

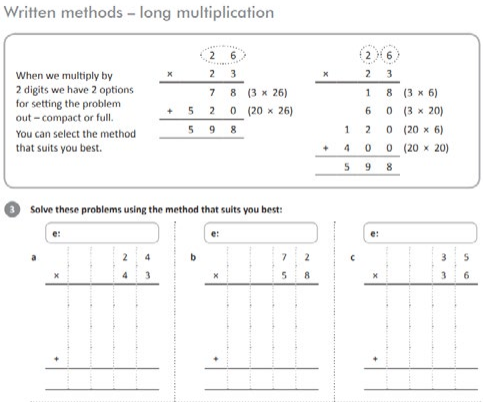



Topic: Multiply and Divide

Activity: *Multiply 2 Digits Area Model*

Pupils are shown a 2-digit by 2-digit multiplication problem. The support shows them through the steps of using an area model to solve the problem.

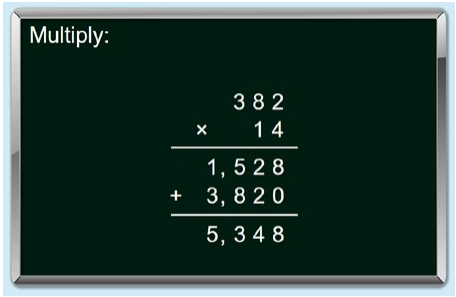
### Small step: Multiply 2-digits by 2-digits




eBook, G series: Multiplication and Division, page 15

Pupils are taken through examples for using the expanded written method to multiply two 2-digit numbers. Pupils then complete exercises to practise this skill.

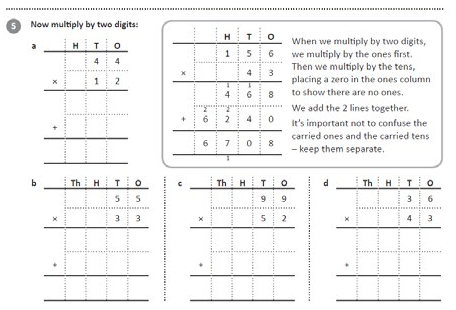
### Small step: Multiply 3-digits by 2-digits




Topic: Multiply and Divide

Activity: *Multiply: 2-Digit Number, Regroup*

Pupils practise multiplication of a 3-digit number by a 2-digit or 3-digit number, including exchanges.



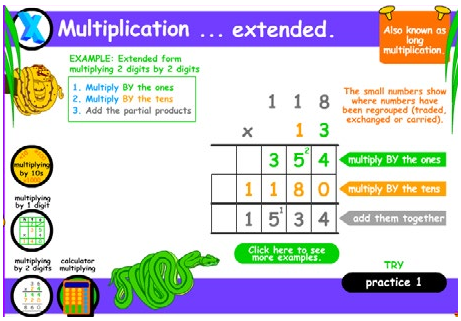

eBook, G series: Multiplication and Division, pages 16–17

This activity models multiplication of 3-digit numbers by 2-digit numbers. Additional exercises offer further practice for pupils.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

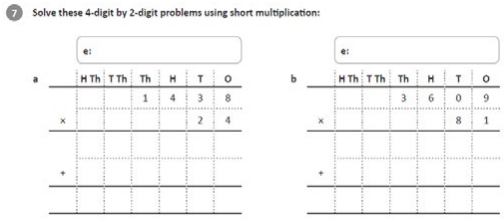



### Rainforest Maths — Level G — Multiplication

Select 'multiplying by 2 digits' to access exercises which involve multiplying a 3-digit number by a 2-digit number. An example is annotated and colour coded to clearly show the method to pupils, taking them through the sequence of steps.

The activity provides examples where the digits which are carried are visible and provides examples for students to complete independently.

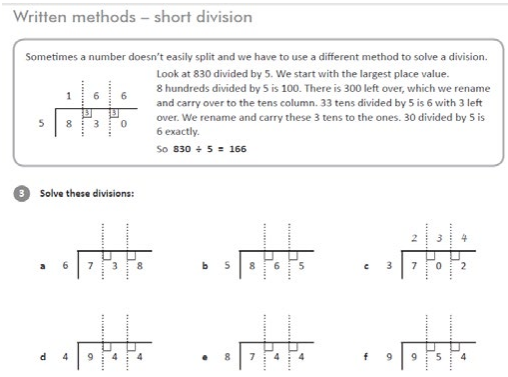
## Small step: Multiply 4-digits by 2-digits




### eBook, G series: Multiplication and Division, page 17

The final exercises on page 17 provide practice for pupils multiplying 4-digit numbers by 2-digit numbers.

## Small step: Divide 4-digits by 1-digit

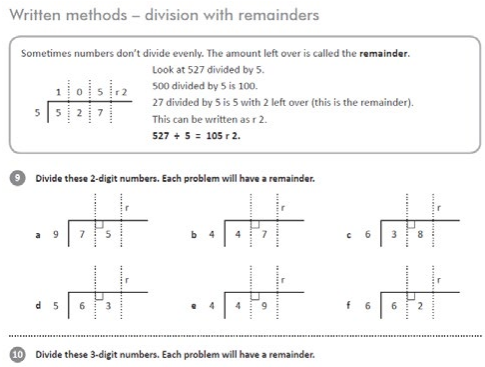



### eBook, F series: Multiplication and Division, page 27

The explanation shows pupils how to divide a 3-digit number by a 1-digit number using short division.

The exercises work through calculations where pupils divide 3-digit and 4-digit numbers by a 1-digit number.

## Small step: Divide with Remainders




### eBook, F series: Multiplication and Division, pages 31–33

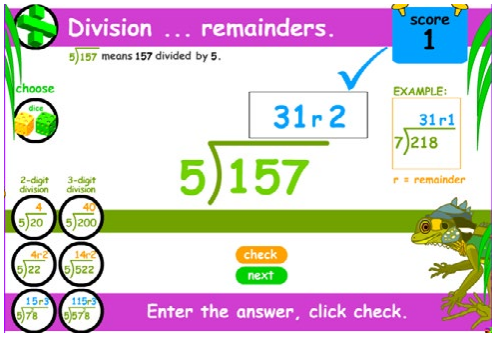
Pages 28–30 give explanations of the concept of division where there is a remainder. Exercises work through examples of dividing 2-digit numbers with remainders.

On page 31, short division of 3-digit numbers by a 1-digit number is modelled, where the answer includes a remainder. The exercises support pupils practising these concepts.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

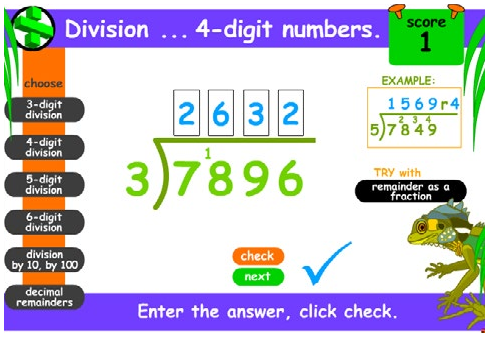
Alignment with Mathletics




### Rainforest Maths — Level F — Division

This page provides exercises for pupils to practise dividing 3-digit numbers by a 1-digit number, when the answers include a remainder.

The final exercises also involve carrying or regrouping.




### Rainforest Maths — Level G — Division

Level G extends pupils' understanding of division to 4-digit numbers by a 1-digit number. Some of the examples involve remainders.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

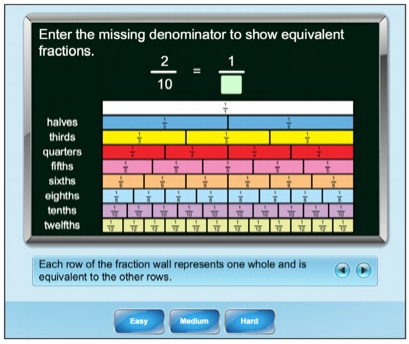
Alignment with Mathletics

## Examples of alignment to Mathletics

## Block 2 (Weeks 4-9) Number: Fractions

| National Curriculum Objectives | WRM Small Steps |
|---|---|
| ▸ Compare and order fractions whose denominators are multiples of the same number.<br>▸ Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.<br>▸ Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$].<br>▸ Add and subtract fractions with the same denominator, and denominators that are multiples of the same number.<br>▸ Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.<br>▸ Read and write decimal numbers as fractions [for example $0.71 = \frac{71}{100}$].<br>▸ Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. | ▸ Equivalent Fractions<br>▸ Improper Fractions to Mixed Numbers<br>▸ Mixed Numbers to Improper Fractions<br>▸ Number Sequences<br>▸ Compare & Order (Less than 1)<br>▸ Compare & Order (More than 1)<br>▸ Add & Subtract Fractions<br>▸ Add Fractions within 1<br>▸ Add 3 or More Fractions<br>▸ Add Fractions<br>▸ Add Mixed Numbers<br>▸ Subtract Fractions<br>▸ Subtract Mixed Numbers (1)<br>▸ Subtract Mixed Numbers (2)<br>▸ Subtract 2 Mixed Numbers<br>▸ Multiply by an Integer (1)<br>▸ Multiply by an Integer (2)<br>▸ Multiply by an Integer (3)<br>▸ Fraction of an Amount<br>▸ Fractions as Operators |

### Small step: Equivalent Fractions




Topic: Fractions

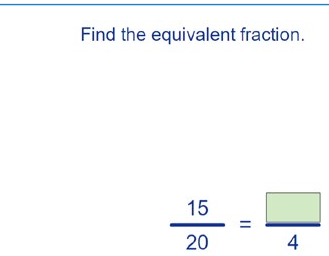
Activity: *Equivalent Fraction Wall 2*

Using an equivalent fraction wall for support, pupils identify the missing denominator to create an equivalent fraction.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

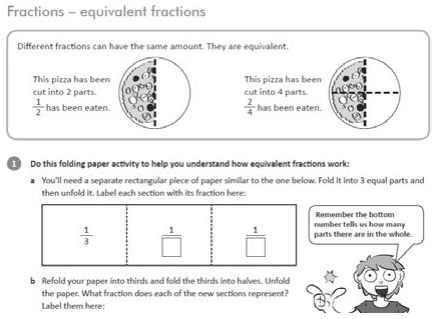
Alignment with Mathletics




**Topic:** Fractions

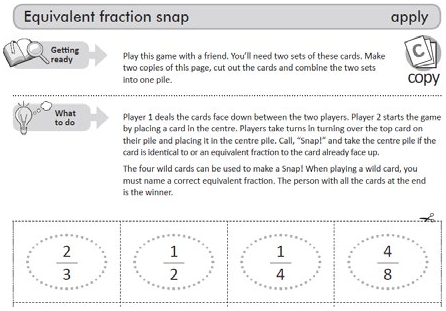
**Activity:** *Equivalent Fractions*

In this activity, pupils are encouraged to use multiplication and division facts to find equivalent fractions.



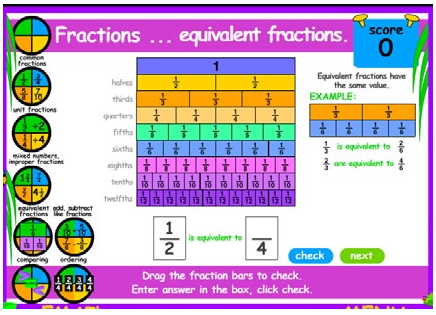

**eBook, F series: Fractions, Decimals and Percentages, pages 3–5**

Beginning with an explanation and illustration of equivalent fractions, these pages provide practical exercises to support pupils in understanding the concept of equivalent fractions.




**eBook, F series: Fractions, Decimals and Percentages, page 16**

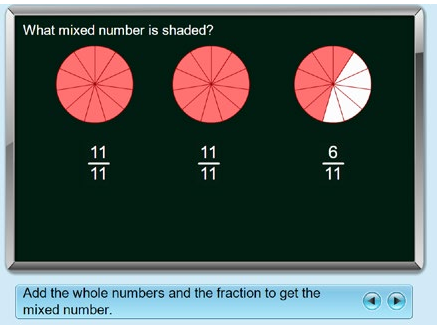
This page provides a printable game for pupils to play in pairs. In this 'Snap' like game, pupils match 2 equivalent fractions to win the pair of cards. The addition of some 'Wild Cards' encourages pupils to think of further equivalent fractions to match the card that has been played. The exercise can be extended with pupils creating their own sets of cards.




**Rainforest Maths — Level F — Fractions**

The sections on the fraction wall can be dragged to find equivalent fractions. The first questions involve finding fractions equivalent to $\frac{1}{2}$. The exercise then gets progressively more challenging.

## Small step: Improper Fractions to Mixed Numbers




**Topic:** Fractions

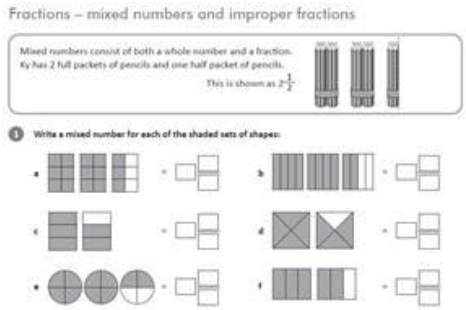
**Activity:** *What Mixed Number Is Shaded?*

Pupils use visual representations of fractions beyond 1 to write the fraction as a mixed number. The support shows students how to count the whole numbers and parts.

# Year 5 White Rose Maths (WRM)

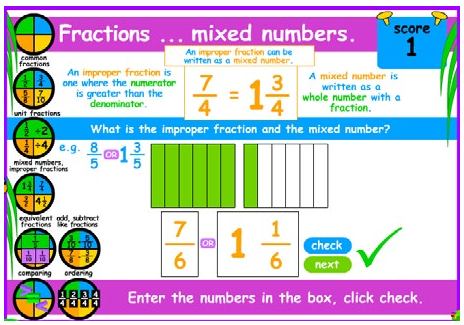
## Spring Scheme of Learning, 2018

Alignment with Mathletics




### eBook, F series: Fractions, Decimals and Percentages, page 10

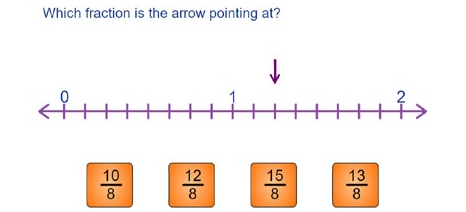
The concept of improper fractions and mixed numbers is explained and modelled. Exercises give pupils the opportunity to practise recording an improper fraction as a mixed number.




### Rainforest Maths — Level F — Fractions

This page explains the concept of improper fractions and mixed numbers. Pupils are shown a visual representation of a fraction and record the fraction as both an improper fraction and a mixed number.

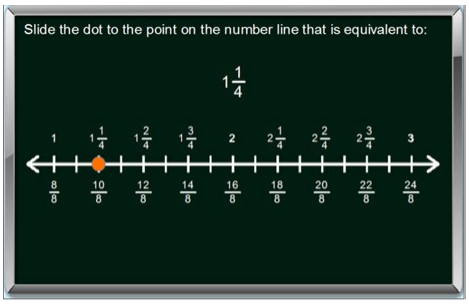
## Small step: Mixed Numbers to Improper Fractions




Topic: Fractions

Activity: *Identifying Fractions Beyond 1*

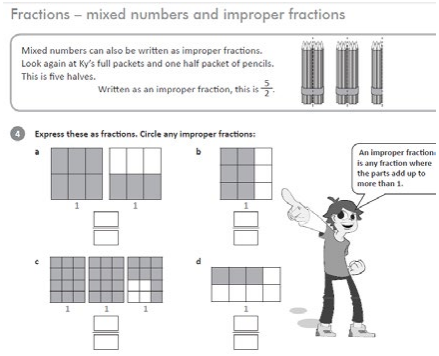
Pupils identify an improper fraction represented on a number line marked with whole numbers and fractional parts.




Topic: Fractions

Activity: *Mixed and Improper Fractions on a Number Line*

Using a number line, pupils identify the equivalent improper fraction for a given mixed number.



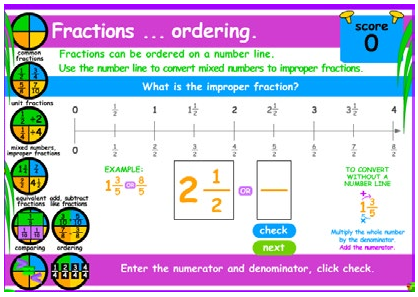

### eBook, F series: Fractions, Decimals and Percentages, pages 11–12

Page 11 shows a visual representation of a mixed number which pupils then convert into an improper fraction.
Page 12 includes more practise converting mixed numbers to improper fractions.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

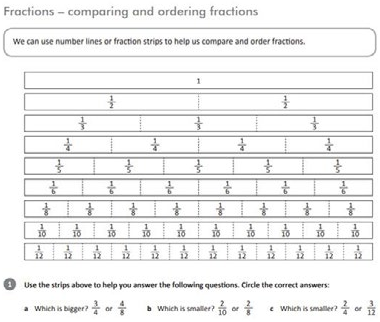
Alignment with Mathletics




### Rainforest Maths — Level F — Fractions

The exercise shows fractions ordered on a number line. Using the number line, pupils are asked to convert a mixed number into an improper fraction.

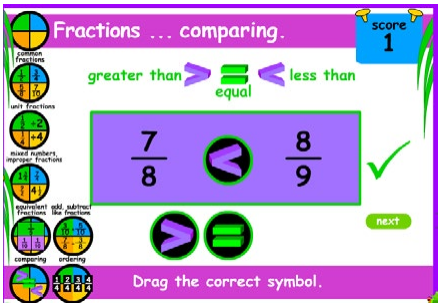
## Small step: Compare & Order (Less than 1)




### eBook, F series: Fractions, Decimals and Percentages, pages 1–2

Pupils are given a fraction wall to support their understanding of fractions and to help them compare and order fractions.

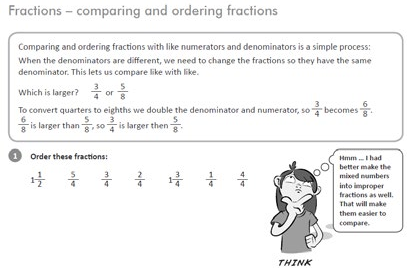
Page 2 uses a number line from 0–1 to support pupils in ordering fractions.




### Rainforest Maths — Level F — Fractions

Pupils use the <, > and = sign to compare fractions. The exercise works well on an interactive whiteboard with pupils explaining their reasoning.

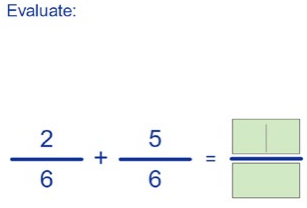
## Small step: Compare & Order (More than 1)




### eBook, G series: Fractions, Decimals and Percentages, pages 5–9

These pages extend pupils' understanding of ordering and comparing fractions. Exercises include ordering improper fractions and mixed numbers.

## Small step: Add & Subtract Fractions




$$\frac{2}{6} + \frac{5}{6} = \frac{\square}{\square}$$

Topic: Fractions

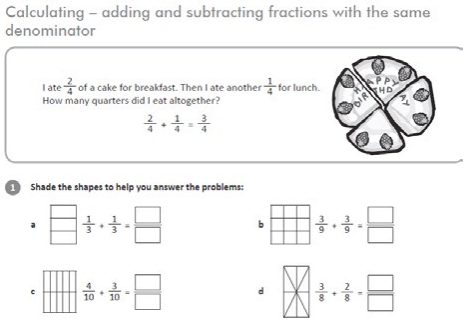
Activity: *Common Denominator*

Pupils add and subtract proper fractions with a common denominator.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

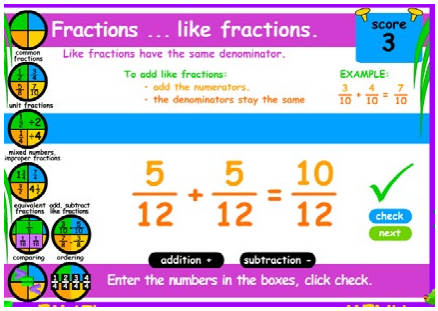
Alignment with Mathletics




### eBook, F series: Fractions, Decimals and Percentages, pages 32–33

The concept of adding and subtracting fractions with the same denominator is explaining and modelled.

The exercises on page 32 provide a visual that pupils can shade before recording their answer.

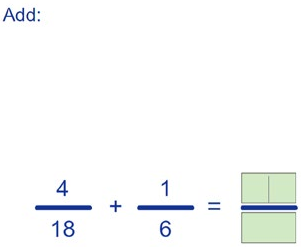



### Rainforest Maths — Level F — Fractions

Following an explanation and example of how to add fractions with the same denominator, pupils can practise working through a series of questions.

Clicking on the option at the bottom of the page allows pupils to practise subtracting fractions with the same denominator.

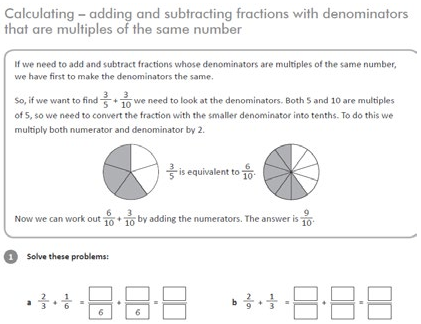
## Small step: Add Fractions within 1




**Topic:** Fractions

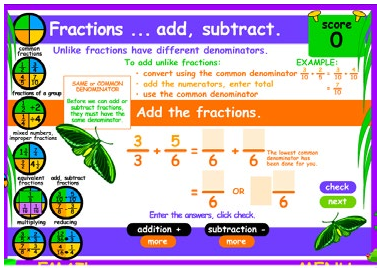
**Activity:** *Add: No Common Denominator*

Pupils add unlike but related proper fractions.




### eBook, F series: Fractions, Decimals and Percentages, page 35

The explanation and visual model works through the process of adding and subtracting fractions with denominators which are multiples of the same number. Pupils are shown how to convert the fractions first so they have a like denominator, before doing the calculations. Exercises then provide practice for pupils.




### Rainforest Maths — Level G — Fractions

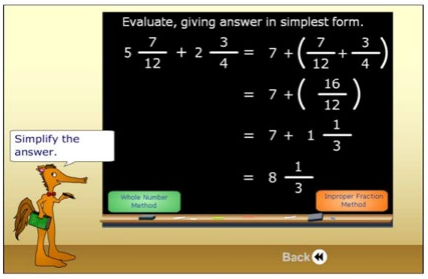
The page explains how pupils need to convert fractions so they have a common denominator before adding them. Pupils work through a series of examples.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

### Small step: Add Mixed Numbers

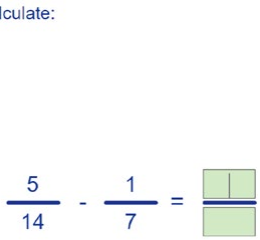



Topic: Fractions

Activity: *Add Unlike Mixed Numbers*

Pupils can choose from 2 methods to add unlike but related mixed numbers. The whole number method demonstrates the process of adding the whole numbers first whereas the improper fraction method teaches pupils to convert both mixed numbers to improper fractions before adding.

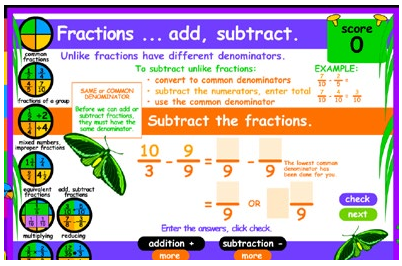
### Small step: Subtract Fractions




Topic: Fractions

Activity: *Subtract: No Common Denominator*

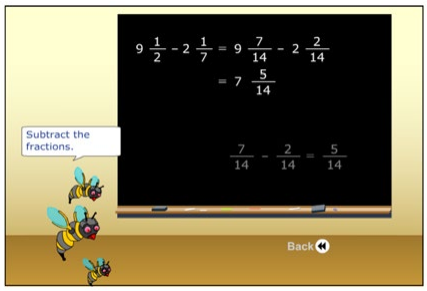
Pupils subtract unlike but related fractions.




Rainforest Maths — Level G — Fractions

Select 'more' to see examples with unlike but related fractions. This task shows pupils how to convert fractions so they have a common denominator before subtracting them.

### Small step: Subtract 2 Mixed Numbers

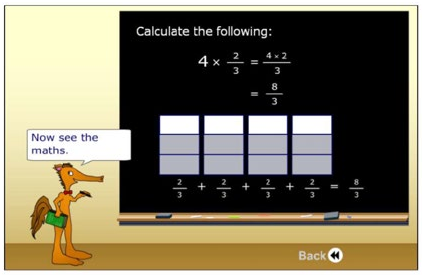



Topic: Fractions

Activity: *Subtract Unlike Mixed Numbers*

Pupils first convert the mixed numbers into like fractions before subtracting the wholes and the parts.

### Small step: Multiply by an Integer (2)




Topic: Fractions

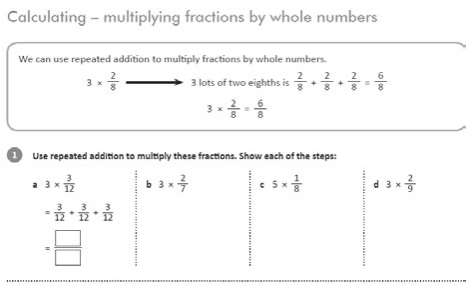
Activity: *Fraction by Whole Number*

Pupils are encouraged to use repeated addition or multiplication facts to multiply a non-unit fraction by a whole number.

# Year 5 White Rose Maths (WRM)

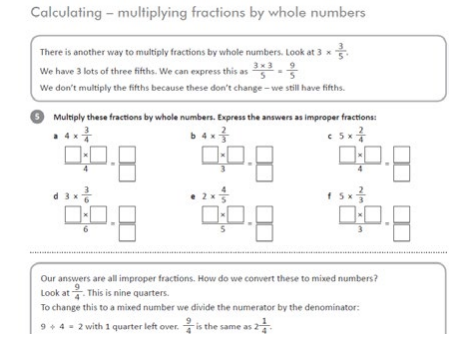
## Spring Scheme of Learning, 2018

Alignment with Mathletics



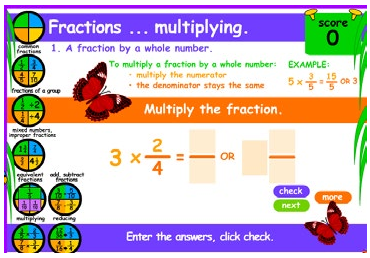

### eBook, G series: Fractions, Decimals and Percentages, page 32

Multiplying a non-unit fraction by a whole number is shown as repeated addition and then followed by a series of exercises for pupils to practise applying their understanding. Some questions involve pupils having to explain their thinking and say whether calculations are correct or incorrect and why.




### eBook, G series: Fractions, Decimals and Percentages, page 33

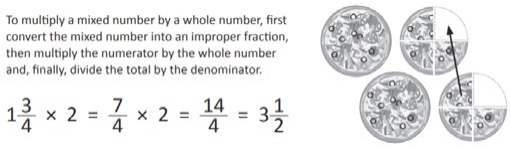
Multiplying a non-unit fraction by a whole number is shown with the numerator multiplied by the whole number and the denominator remaining the same. Where the answer is an improper fraction, pupils are prompted to change this to a mixed number.




### Rainforest Maths — Level G — Fractions

The page explains how to multiply a fraction by a whole number and provides examples for pupils to work through. If an incorrect answer is entered, pupils are shown it is wrong and can then work the answer out again, enter it and check.

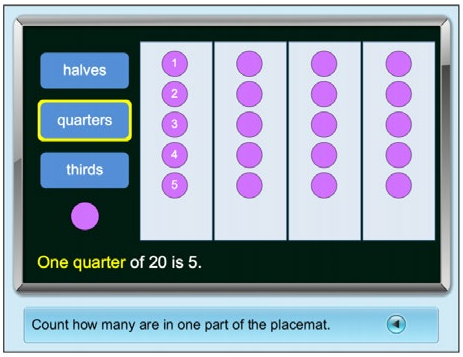
## Small step: Multiply by an Integer (3)




### eBook, F series: Fractions, Decimals and Percentages, page 13

The explanation on this page shows pupils how to first convert the mixed number into an improper fraction before multiplying the numerator by the whole number and then rewriting the new fraction as a mixed number.

## Small step: Fraction of an Amount




Topic: Fractions

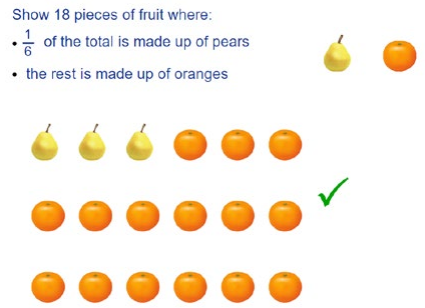
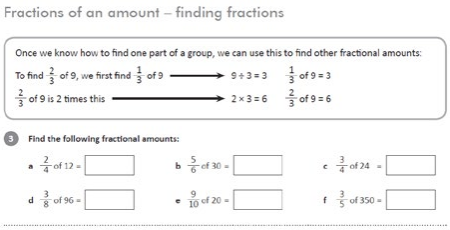
Activity: *Fraction of a Collection 2*

Pupils find unit and non-unit fractions (halves, quarters, thirds, fifths and eighths) of amounts using visual representatives for support.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

| | |
|---|---|
|  | Topic: Fractions<br>Activity: *Fraction Fruit Sets 2*<br>Pupils can click to create sets of objects to help them solve problems that involve finding unit and non-unit fractions of amounts. |
|  | eBook, G series: Fractions, Decimals and Percentages, pages 20–21<br>Pupils are shown the relationship between finding a fraction of an amount and division. Page 20 begins with unit fractions.<br>On page 21 pupils work through an exercise and then apply their understanding to problems which involve working out fractions of amounts of time. |

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

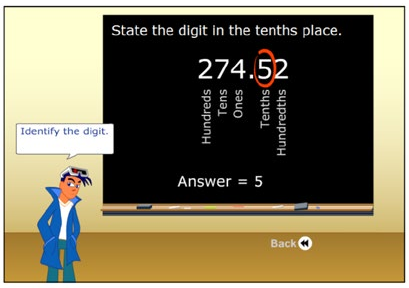
Alignment with Mathletics

## Examples of alignment to Mathletics

## Block 3 (Weeks 10–11) Number: Decimals and Percentages

| National Curriculum Objectives | WRM Small Steps |
|---|---|
| ▸ Read, write, order and compare numbers with up to three decimal places.<br>▸ Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.<br>▸ Round decimals with two decimal places to the nearest whole number and to one decimal place.<br>▸ Solve problems involving number up to three decimal places.<br>▸ Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.<br>▸ Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25. | ▸ Decimals up to 2 d.p<br>▸ Decimals as Fractions (1)<br>▸ Decimals as Fractions (2)<br>▸ Understand Thousandths<br>▸ Thousandths as Decimals<br>▸ Rounding Decimals<br>▸ Order and Compare Decimals<br>▸ Understand Percentages<br>▸ % as Fractions & Decimals<br>▸ Equivalent FDP |

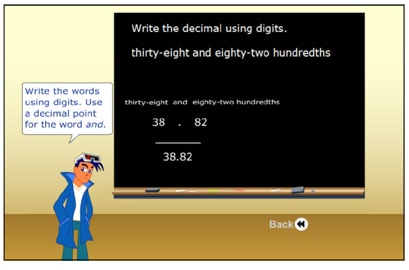
### Small step: Decimals up to 2 d.p




Topic: Decimals and Percentages

Activity: *Decimal Place Value*

Pupils use their knowledge of decimal place values to determine which digit is in the tenths or hundredths place.




Topic: Decimals and Percentages

Activity: *Decimals from Words to Digits 1*

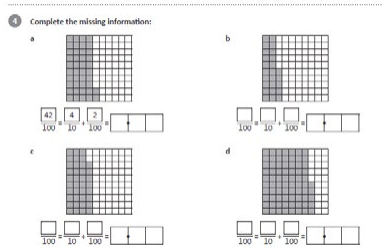
Pupils read a decimal number (tenths or hundredths) written in words and record the number using digits.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

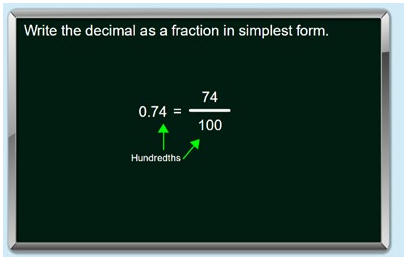
### Small step: Decimals as Fractions (1)




**eBook, F series: Fractions, Decimals and Percentages, pages 20 and 21**

In these pages the relationship between fractions expressed as tenths and hundredths and decimal notation is modelled and explained. Exercises then provide practice for pupils to reinforce their learning.

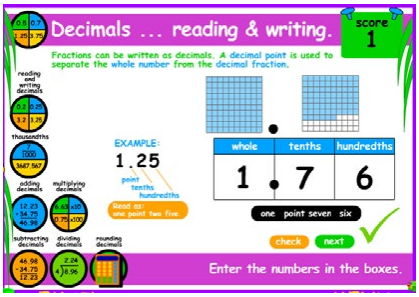
### Small step: Decimals as Fractions (2)




Topic: Decimals and Percentages

Activity: *Convert Decimals to Fractions 2*

In this activity, pupils convert decimals to 2 decimal places to fractions. Some of the questions require simplification.

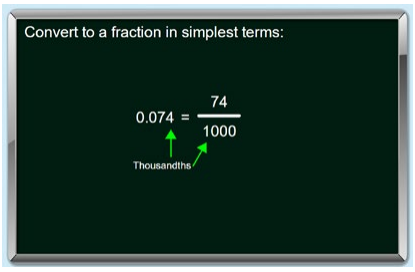



**Rainforest Maths — Level F — Decimals**

Pupils are shown the visual of a hundred square representing a whole, with a part-shaded square representing a fraction of the whole in tenths and hundredths.

Pupils record the fraction shown as a decimal to 2 decimal places.

### Small step: Understand Thousandths

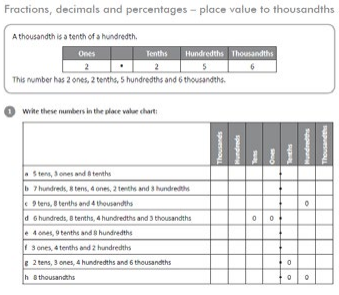



Topic: Decimals and Percentages

Activity: *Decimals to Fractions 2*

This activity encourages pupils to convert decimals to 3 decimal places to fractions. Some questions require simplification.

### Small step: Thousandths as Decimals



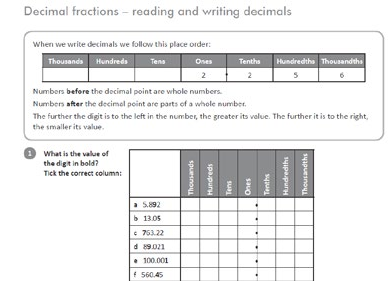

**eBook, F series: Fractions, Decimals and Percentages, page 22**

Thousandths are introduced and modelled on a place value chart. The importance of zero as a place holder is shown. Pupils input digits into the correct columns on a decimal place value chart to represent numbers written in words.

# Year 5 White Rose Maths (WRM)

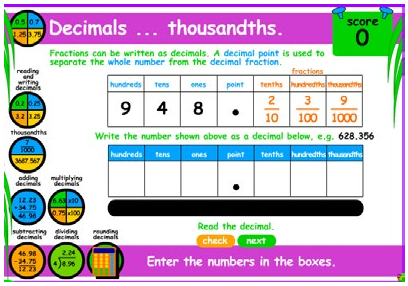
## Spring Scheme of Learning, 2018

Alignment with Mathletics




### eBook, G series: Fractions, Decimals and Percentages, page 13

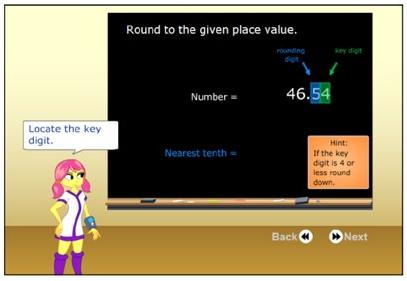
Pupils' understanding of thousandths as a decimal is reinforced using a place value chart. Pupils input numbers up to 3 decimal places on the chart.




### Rainforest Maths — Level F — Decimals

This page shows pupils how tenths, hundredths and thousandths can be represented as decimals on a place value chart. Pupils input their answers onto the blank place value chart to apply their understanding of place value.

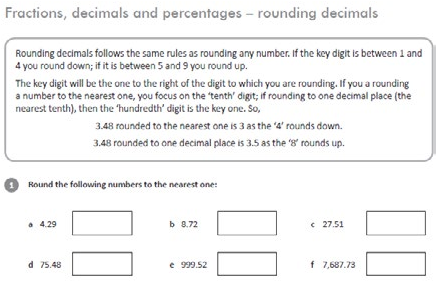
## Small step: Rounding Decimals




Topic: Decimals and Percentages

Activity: *Rounding Decimals 1*

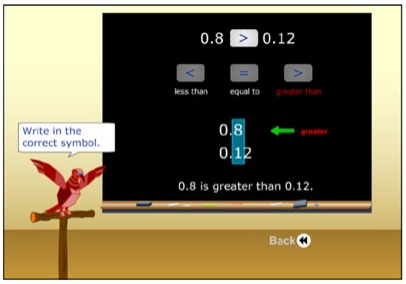
Pupils round numbers to 2 decimal places to the nearest whole or tenth by identifying the key digit and deciding whether to round up or down.




### eBook, F series: Fractions, Decimals and Percentages, page 25

An explanation of how to round a decimal to the nearest whole number or tenth is given, followed by exercises to practise this concept.

## Small step: Order and Compare Decimals




Topic: Decimals and Percentages

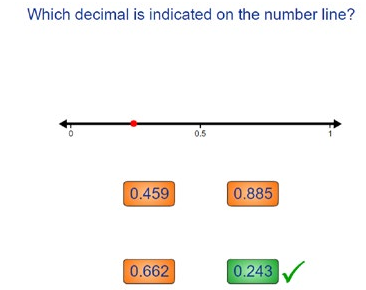
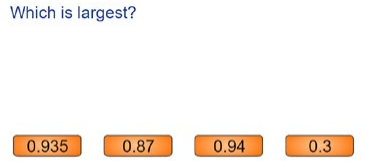
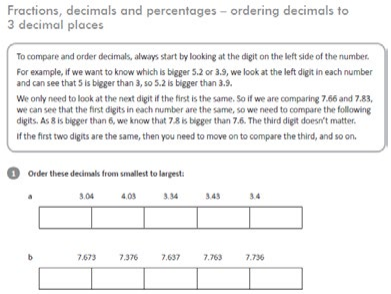
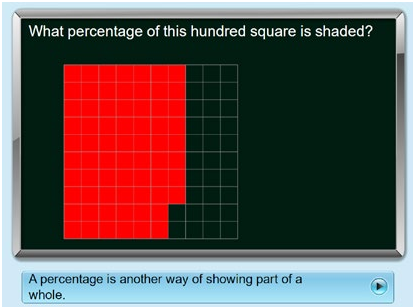
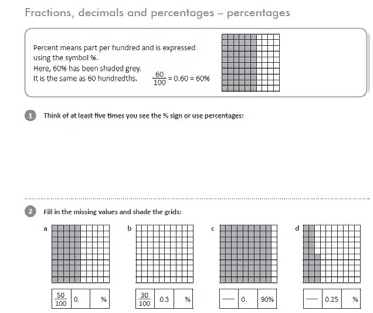
Activity: *Decimal Order 1*

Pupils compare tenths and hundredths and select the correct 'greater than', 'less than' or 'equal to' symbol to represent the comparison.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

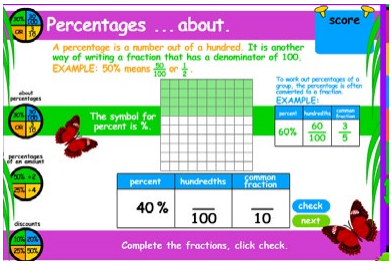
Alignment with Mathletics

| | |
|---|---|
|  | **Topic:** Decimals and Percentages<br>**Activity:** *Decimals on a Number Line*<br>In this activity, pupils need to visualise the number line segmented into tenths and select the decimal that represents the point on the number line (up to 3 decimal places). |
|  | **Topic:** Decimals and Percentages<br>**Activity:** *Comparing Decimals*<br>Pupils begin by comparing 2 decimals to identify the largest decimal before comparing 3, then 4 decimals (including tenths, hundredths and thousandths). |
|  | **eBook, F series: Fractions, Decimals and Percentages, pages 23–24**<br>Page 23 begins with comparing decimals. The following page expands the concept to the ordering of decimals, reminding pupils to look at the digits on the left first. |
| **Small step: % as Fractions & Decimals** | |
|  | **Topic:** Decimals and Percentages<br>**Activity:** *Modelling Percentages*<br>In this activity, pupils count the number of squares that are shaded or unshaded on a hundred square and write this as a percentage. |
|  | **eBook, F series: Fractions, Decimals and Percentages, page 26**<br>Percentages are explained and modelled, showing the relationship between fractions with a denominator of 100, decimals and percentages.<br>Pupils are encouraged to think about when they have seen percentages in everyday use.<br>Exercises develop pupils' understanding of the concepts, using a shaded hundred square as a visual representation. |

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

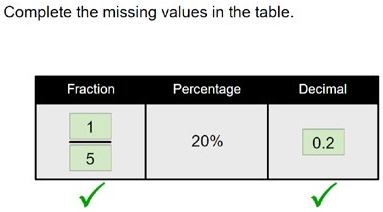
Alignment with Mathletics




### Rainforest Maths — Level F — Percentages

This page shows pupils the relationship between tenths, hundredths, and percentages. The visual of a hundred square shaded is used to show percentages. Pupils look at the shaded square and record the percentage and the fraction in hundredths and then as an equivalent common fraction.

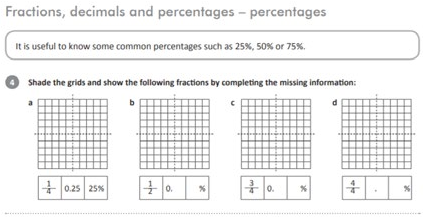
## Small step: Equivalent FDP




**Topic:** Decimals and Percentages

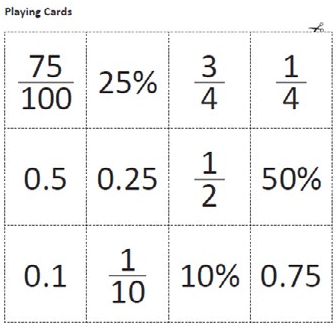
**Activity:** *Mixed decimal, percentage and fraction conversions*

In this activity, pupils identify the equivalent fraction, decimal and percentage. Simplified fractions must be used. The support area provides a list of common fraction, decimal and percentage conversions. Pupils may need reminding to enter the percentage symbol.




### eBook, F series: Fractions, Decimals and Percentages, page 27

Pupils are introduced to common fractions (with denominators other than 100) as percentages. Visual models provide support for the conversion between fractions, decimals and percentages.




### eBook, F series: Fractions, Decimals and Percentages, page 30

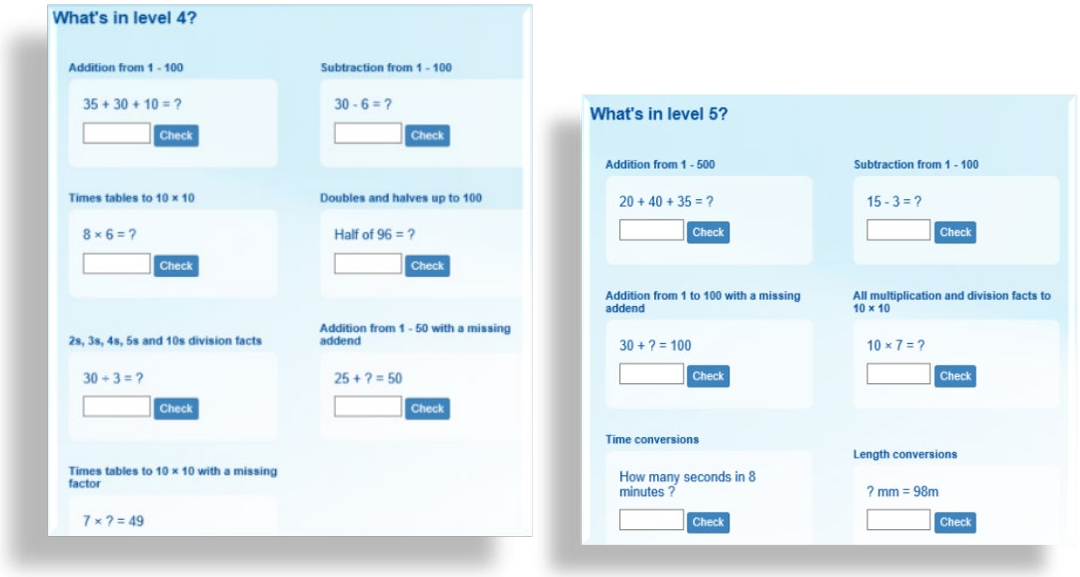
In this 'Snap' like game, pupils match cards with equivalent fractions, decimals and percentages. A set of blank cards are also provided so that pupils create their own equivalent fractions, decimals and percentages cards to challenge their partner.

# Year 5 White Rose Maths (WRM)

## Spring Scheme of Learning, 2018

Alignment with Mathletics

### Live Mathletics




Live Mathletics engages pupils in 60-second real-time games, testing speed and accuracy of maths facts.

To support progress in Year 5, encourage pupils to use **Level 4 and 5** of Live Mathletics.

Teachers can set minimum levels on Live Mathletics by clicking the 'switch to old Mathletics' button, selecting **Results** and selecting **Minimum levels** on the left-hand side of the page. Students can still access higher levels once you set a minimum level, so encourage students to challenge themselves and move on to the next level when they are ready.

(**Note**: Live Mathletics levels are a sliding scale, with no relationship to classes or old National Curriculum levels. As a resource which is also used in secondary schools, the levels from 6 upwards are intended for older students.)

When assigning activities with calculations that do not have spaces for recording any working out, consider getting pupils to record their thinking strategies in their Maths books or on a whiteboard, before answering the question in Mathletics. Pupils can then self-mark their work after each question. If they have made a mistake, they can correct their work using the support feature in the activities. Instant feedback and learning!

Mathletics

For more information about Mathletics,
contact our friendly team.

www.mathletics.com/contact

A 3P Learning Product