Mathletics

Year 6 White Rose Maths (WRM)
Autumn Scheme of Learning, 2017
Alignment with Mathletics

Year 6 – 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, Subtraction, Multiplication and Division				Fractions				Geometry- Position and Direction	Consolidation
Spring	Number- Decimals		Number- Percentages		Number- Algebra		Measurement Converting units	Measurement Perimeter, Area and Volume		Number- Ratio		Consolidation
Summer	Geometry- Properties of Shapes		Problem solving			Statistics		Investigations				Consolidation

This alignment document has been based on the White Rose Maths scheme of learning available on the TES website.

www.tes.com/teaching-resource/wrm-schemes-of-learning-years-1-to-6-block-1-place-value-11652624

Year 6 White Rose Maths (WRM) Autumn Scheme of Learning, 2017

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Weeks 11 Geometry 21

Purpose:

The aim of this document is to support Mathletics teachers, who use the WRM scheme 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 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 has been added to the document.

Links to Rainforest Maths, which can be found in the 'Play' area in the Mathletics student interface, have also been included, as this resource has great visuals which work well on interactive whiteboards and give 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 06 WRM Autumn Aligned

Data-Driven Teaching and Learning

Differentiation

Feedback and Reflection

Student Growth

Blended Learning

Year 6 White Rose Maths (WRM) Autumn Scheme of Learning, 2017

Examples of alignment to Mathletics

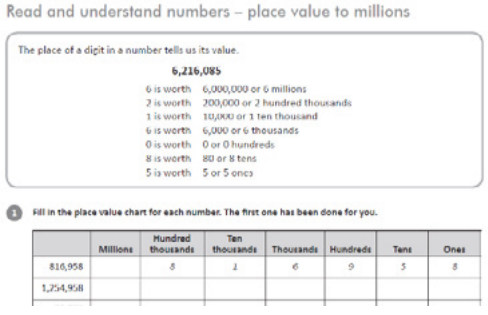
Weeks 1-2 Place Value

National Curriculum Objectives	WRM Small Steps
▸ Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. ▸ Round any whole number to a required degree of accuracy. ▸ Use negative numbers in context, and calculate intervals across zero. ▸ Solve number and practical problems that involve all of the above.	▸ Numbers to ten million ▸ Compare and order any number ▸ Round any numbers ▸ Negative numbers

Small step: Numbers to ten million

Topic: Number and Place Value
Activity: *Numbers from Words to Digits 2*
Pupils read numbers in words and rewrite them in digits — up to 10 million.

Topic: Number and Place Value
Activity: *Place Value – Millions*
Identify the digit in a given place — up to millions.



eBook, G series: Number and Place Value, page 1+
Explanation of place value to millions.
Range of activities to practise key concepts.

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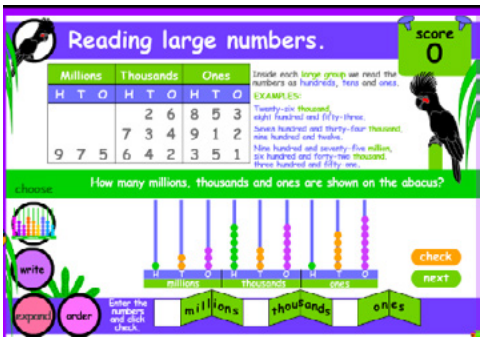
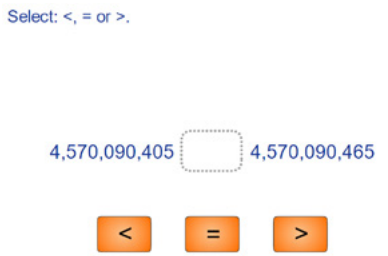
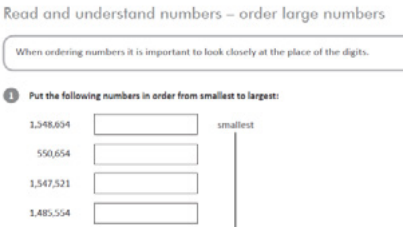


Rainforest Maths — Level G — Reading Large Numbers
Illustrates place value beyond 10 million.

Small step: Compare and order any number



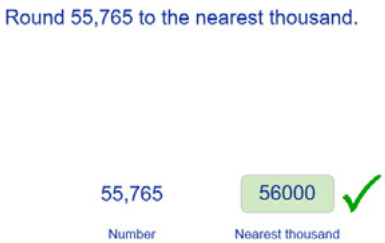
Topic: Number and Place Value
Activity: *Comparing Numbers*
Pupils compare large numbers using symbols.



eBook, G series: Number and Place Value, page 4+
Range of activities, including games to practise ordering numbers up to 7 digits.

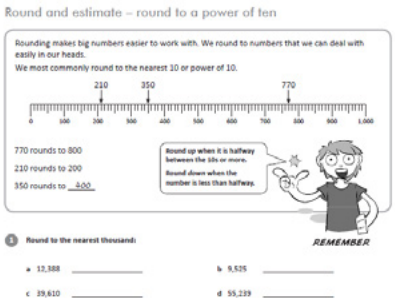
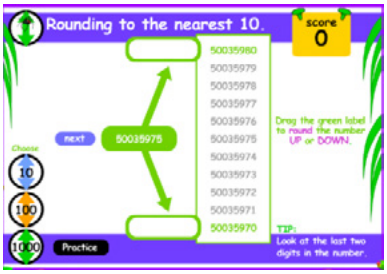
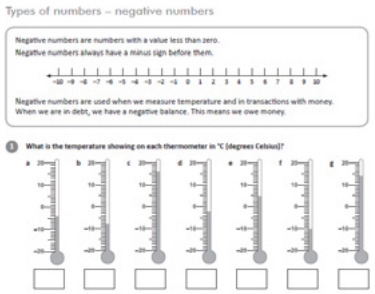
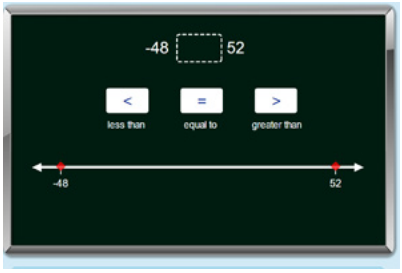
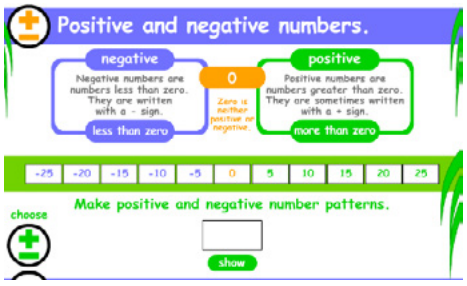
Rainforest Maths — Level G — Ordering Large Numbers
Exercises to order numbers beyond a million.

Small step: Round any numbers



Topic: Number and Place Value
Activity: *Rounding Numbers*
Round numbers to the nearest 1,000.

Other Activities:
Nearest Whole Number — rounding decimals.
Nearest 1,000? — rounding to nearest 1,000.

	eBook, G series: Number and Place Value, page 16 Explains the rationale behind rounding numbers and how rounding can be used to support estimation. Activities to practise rounding and estimation. Word problems also explore rounding and estimation.
	Rainforest Maths — Level G — Rounding Exercises to practise rounding to the nearest 10, 100 and 1,000.
Small step: Negative numbers	
	eBook, G series: Numbers and Place Value, page 8+ Explains negative numbers and shows them in the context of temperature. Activities to practise working with negative numbers.
	Topic: Number and Place Value Activity: *Comparing Integers (<, =, >)* Pupils compare integers and select the correct symbol. The support uses the number line to illustrate the number differences.
	Rainforest Maths — Level G — Positive and Negative Numbers Illustrates positive and negative numbers on a number line. Pupils enter a number to create a number pattern that includes negative numbers (e.g. counting from -25 in steps of 5 to 25).

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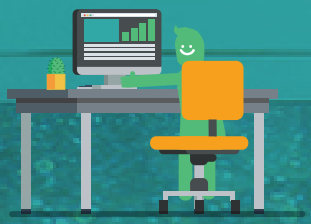


Year 6 White Rose Maths (WRM) Autumn Scheme of Learning, 2017

Examples of alignment to Mathletics

Weeks 3-6 Number: Four Rules

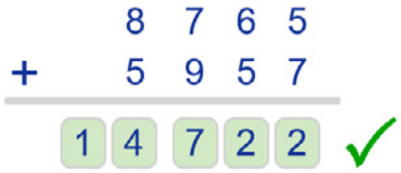
National Curriculum Objectives	WRM Small Steps
▸ Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why. ▸ Multiply multi-digit number up to 4 digits by a 2-digit number using the formal written method of long multiplication. ▸ Divide numbers up to 4 digits by a 2-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding as appropriate for the context. ▸ Divide numbers up to 4 digits by a 2-digit number using the formal written method of short division, interpreting remainders according to the context. ▸ Perform mental calculations, including with mixed operations and large numbers. ▸ Identify common factors, common multiples and prime numbers. ▸ Use their knowledge of the order of operations to carry out calculations involving the four operations. ▸ Solve problems involving addition, subtraction, multiplication and division. ▸ Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.	▸ Add and subtract whole numbers ▸ Multiply up to a 4-digit by 1-digit number ▸ Short division ▸ Division using factors ▸ Long division (1) ▸ Long division (2) ▸ Long division (3) ▸ Long division (4) ▸ Common factors ▸ Common multiples ▸ Primes ▸ Squares and cubes ▸ Order of operations ▸ Mental calculations and estimation ▸ Reasoning from known facts

When assigning calculation activities that do not have spaces for recording any regroupings, consider getting pupils to record the calculation in their maths books, then answer the question on Mathletics. Pupils can then self-mark their work after each question, receiving instant feedback to support their learning. If they realise they have made a mistake, they can do the correction in their book immediately. In Mathletics, pupils will be shown the correct answer. If they cannot see where they have gone wrong in their calculations they can access the support button in the activity and it will take them through the exact question they have just answered incorrectly.

Encourage students to use the strategies they are being taught in class and to use manipulatives if needed.

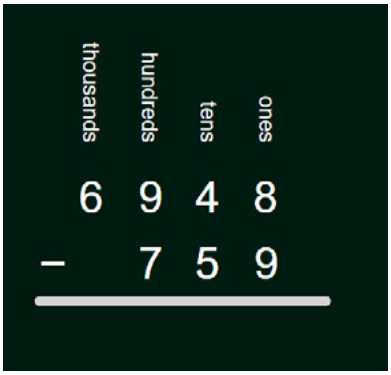
With most activities, including these calculation activities, questions are generated from a pool of questions, allowing students to complete the activities more than once without getting the same set of questions.

Small step: Add and subtract whole numbers



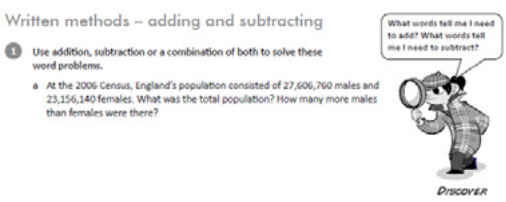
Topic: Four Operations (Part 1)
Activity: *Add Multi-Digit Numbers 2 (UK)*
Pupils practise adding 4-digit numbers.

Rainforest Maths — Level G — Addition to 99 999
Provides practice exercises for students working up to 99,999 — with regrouping.



Topic: Four Operations (Part 1)
Activity: *Subtracting Colossal Columns (UK)*
Pupils use the formal written method to practise subtraction, with regroupings.

Rainforest Maths— Level G — Subtraction to 99 999
Pupils practise subtraction, working with numbers up to 6 digits. Models how to regroup.



eBook, G series: Addition and Subtraction
This eBook works through exercises for pupils to practise addition and subtraction. It includes a range of word problems, 2-step problems and problems where pupils have to decide which operation is needed.

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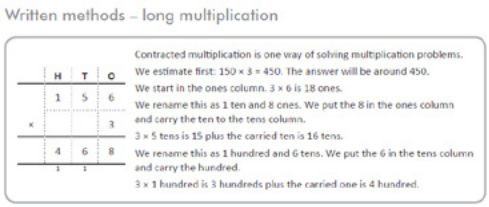
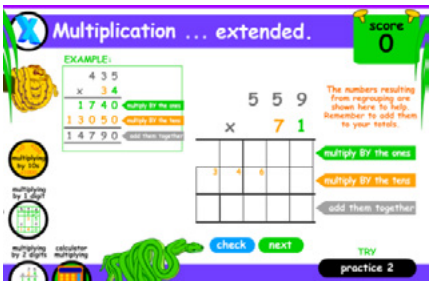
Small step: Multiply up to a 4-digit by 1-digit number

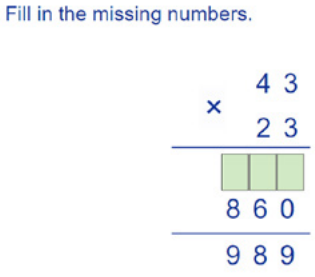
Topic: Four Operations (Part 2)
Activity: *Contracted Multiplication*
In this adaptive activity, pupils begin by first multiplying 2-digit numbers by 1-digit numbers and then they move to multiplying 3-digit and 4-digit numbers by 1 -digit numbers.



eBook, G series: Multiplication and Division, page 16
Explains contracted multiplication and moves on to long multiplication.
Gives examples for students to work through — multiplying by 1 digit and then 2 digits.

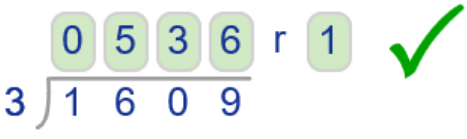


Rainforest Maths — Level G — Multiplication
Provides exercises to practise long multiplication with 1-digit numbers and then progresses to multiplying by 2-digit numbers.

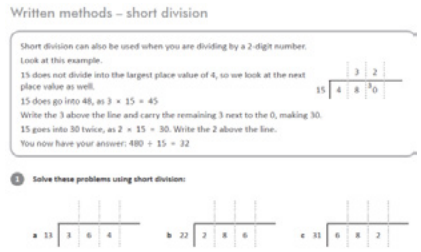
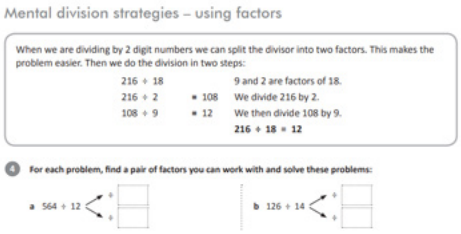
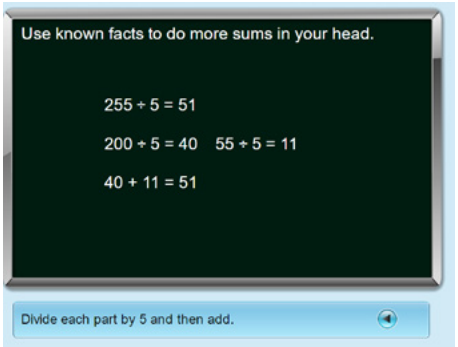


Topic: Four Operations (Part 2)
Activity: *Long Multiplication*
Pupils use the long multiplication method to multiply two 2-digit numbers.

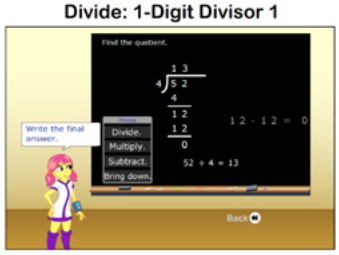
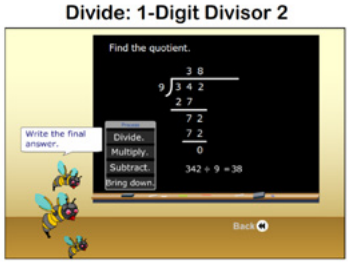
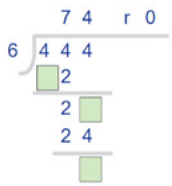
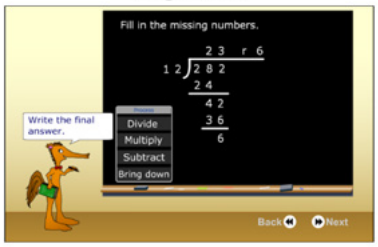
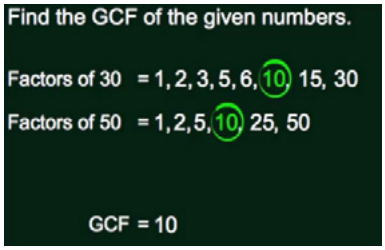
Small step: Short division

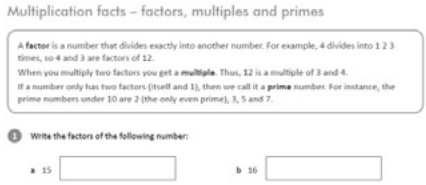


Topic: Four Operations (Part 2)
Activity: *Short Division*
This activity begins with division of 3-digit numbers by 1 digit, with no remainders. It then progresses to 4-digit numbers divided by 1 digit with remainders.

	eBook, G series: Multiplication and Division — Short Division, page 20 Works through an example with an explanation. Sets out exercises to practise short division.
	Rainforest Maths — Level F — Division Progresses through short division with and without remainders. Rainforest Maths — Level G — Division Provides further exercises working with larger numbers and increased difficulty.
Small step: Division using factors	
87 ÷ 9 = 9 remainder 6 ✓	Topic: Four Operations (Part 2) Activity: *Remainders by Tables* Pupils use their knowledge of times-tables and factors to answer these questions.
	eBook, G series: Multiplication and Division, page 10-11 Explains how to use knowledge of factors to support division. Also provides a useful recap of the divisibility rules on page 11.
	Topic: Four Operations (Part 2) Activity: *Mental Methods Division 2* This activity includes the strategy of division using known factors.

Mathletics

Small steps: • Long division (1) • Long division (2) • Long division (3) • Long division (4)	
Divide: 1-Digit Divisor 1  	Topic: Four Operations (Part 2) Activity: *Divide: 1-Digit Divisor 1* Divide a 2-digit number by a 1-digit divisor using long division; no remainders.
Divide: 1-Digit Divisor 2  	Topic: Four Operations (Part 2) Activity: *Divide: 1-Digit Divisor 2* Divide a 3-digit number by a 1-digit divisor using long division; no remainders.
Fill in the missing numbers:  	Topic: Four Operations (Part 2) Activity: *Long Division by Whole Number* Divide a 3-digit number by a 1-digit divisor using long division; includes remainders.
Long Division  	Topic: Four Operations (Part 2) Activity: *Long Division* Divide a 3-digit number by a 2-digit divisor using long division; includes remainders.
Small step: Common factors	
 	Topic: Four Operations (Part 1) Activity: *Greatest Common Factor* The conceptual video shows pupils how to work out the greatest common factor of 2 numbers. Activity: Provides activities to practise this concept.

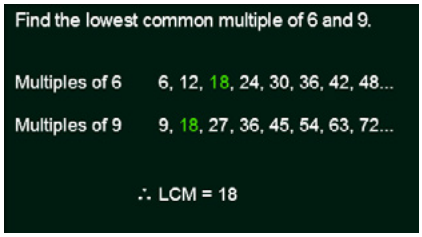


eBook, G series: Multiplication and Division, page 1

Explains concepts — factors, multiples and prime/ composite numbers.

Provides exercises to apply learning.

Small step: Common multiples



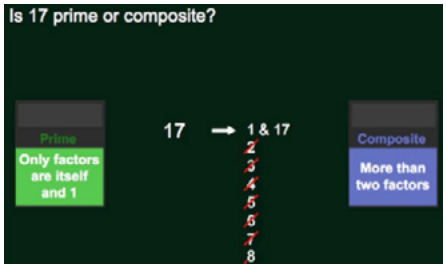
Topic: Four Operations (Part 1)

Activity: *Lowest Common Multiple*

Support shows pupils how to list the multiples to help find the lowest common multiple.

The activity works through finding the common multiple of 2 numbers and then moves to finding the lowest common multiple of 3 numbers.

Small step: Primes

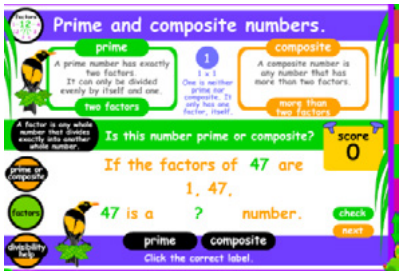


Topic: Four Operations (Part 1)

Activity: *Prime or Composite?*

The video that accompanies this activity explains the concept of prime and composite numbers.

Pupils practise identifying if a number (up to 3 digit) is prime or composite in the activity.

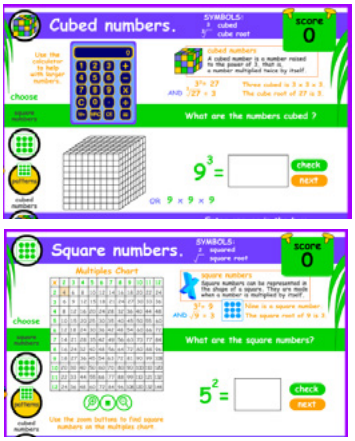


Rainforest Maths — Level G — Prime and Composite Numbers

Explains the concepts of prime and composite numbers, along with factors, and includes a useful recap on divisibility rules.

Exercises provided to practise the concepts.

Small step: Squares and cubes



Rainforest Maths — Level G — Number — Square and Cubed Numbers

Explains the concepts of square and cubed numbers.
Exercises to practise finding square and cubed numbers.

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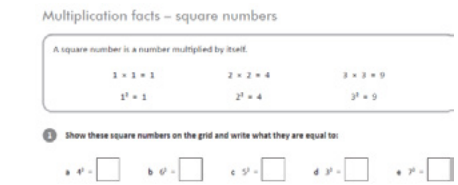
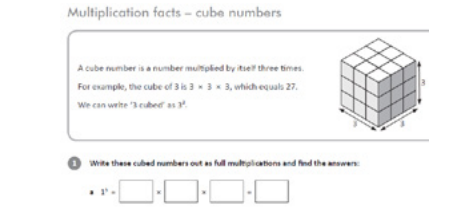
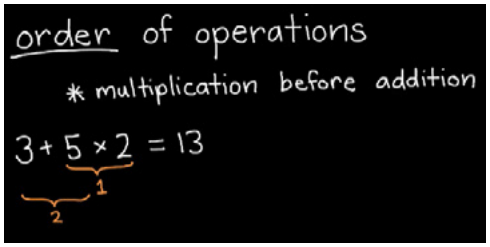
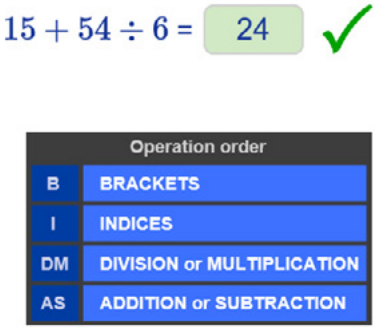
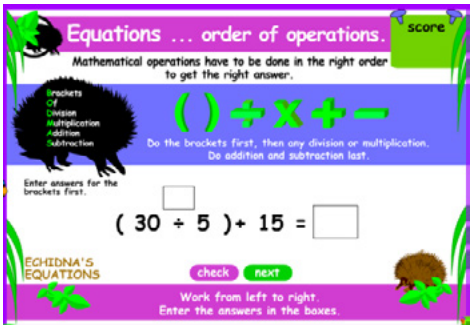
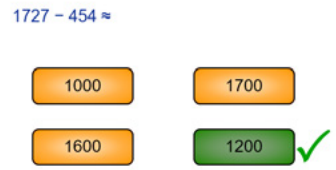
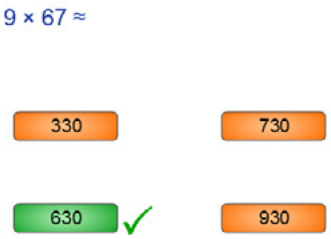
	eBook, F series: Multiplication and Division, page 5 Explains square numbers and provides exercises to practise the concept.
	eBook, F series: Multiplication and Division, page 6 Explains the concept of cube numbers with follow up exercises.
Small step: Order of operations	
	Topic: Four Operations (Part 2) Activity: *Order of Operations 1 (BIDMAS)* The video that accompanies this activity clearly explains the rules for order of operations.
	Topic: Four Operations (Part 2) Activity: *Order of Operations 1 (BIDMAS)* The activity provides exercises in applying the order of operations rules.
	Rainforest Maths — Level F— Equations: Order of Operations Shows the order the operations should be completed in and provides exercises to work through. Rainforest Maths — Level G — Equations: Order of Operations Provides further examples to work through.

Small step: Mental calculations and estimation



Topic: Four Operations (Part 1)
Activity: *Estimation: Add and Subtract*
Pupils use rounding to estimate the answer to addition and subtraction calculations.



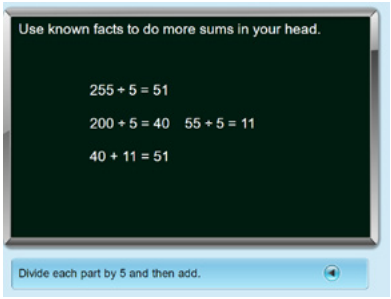
Topic: Four Operations (Part 1)
Activity: *Estimation: Multiply and Divide*
Pupils use rounding to support estimation in multiplication and division problems.

Other estimation activities included:
Activity: *Estimate Products*
Activity: *Estimate Quotients*

Small step: Reasoning from known facts

Rainforest Maths — Level F: Multiplication strategies — split
Use known facts and place value knowledge to solve multiplication problems using mental strategies.

Rainforest Maths — Level F: Multiplication strategies — extensions
Use known facts and place value knowledge to solve division problems using mental strategies.



Topic: Four Operations (Part 2)
Activity: *Mental Methods Division 2*
Pupils use known facts to solve division problems using mental strategies.

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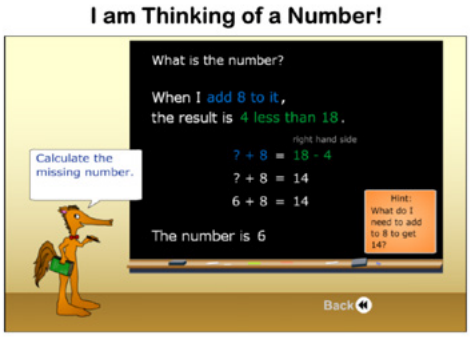


Topic: Problem Solving – Something Easier

Activity: *I am Thinking of a Number!*

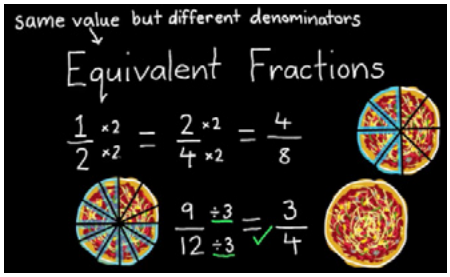
Although the numbers in this activity are easy, this activity does provide extra practise with reasoning to find answers using known facts.

Examples of alignment to Mathletics

Weeks 7-10 Number: Fractions

National Curriculum Objectives	WRM Small Steps
▸ Use common factors to simplify fractions; use common multiples to express fractions in the same denomination. ▸ Compare and order fractions, including fractions > 1. ▸ Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions. ▸ Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$] ▸ Divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2 = \frac{1}{6}$] ▸ Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example $\frac{3}{8}$] ▸ Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts. ▸ Generate and describe linear number sequences (with fractions).	▸ Simplify fractions ▸ Fractions on a number line ▸ Compare and order fractions by the denominator ▸ Compare and order fractions by the numerator ▸ Add and subtract fractions (1) ▸ Add and subtract fractions (2) ▸ Adding fractions ▸ Subtracting fractions ▸ Mixed addition and subtraction problems ▸ Multiply fractions by whole number ▸ Multiply fractions by fraction ▸ Divide a fraction by a whole number (1) ▸ Divide a fraction by a whole number (2) ▸ Four rules with fractions ▸ Fraction of an amount ▸ Fraction of an amount - finding the whole

Small step: Simplify fractions

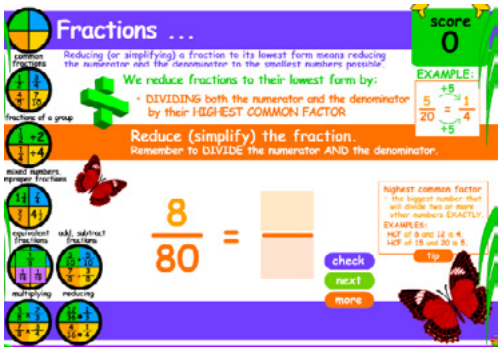


Topic: Fractions
Activity: *Simplifying Fractions*
The video that accompanies this activity provides an introduction to fractions, including equivalent fractions.

$\frac{45}{144} = \frac{5}{16}$ ✓

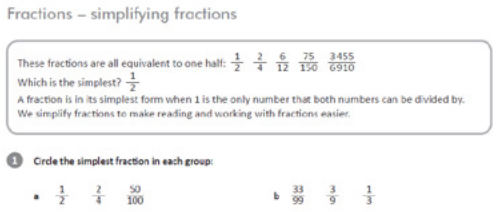
Topic: Fractions
Activity: *Simplifying Fractions*
This is an adaptive activity that moves from fractions that can be simplified to $\frac{1}{2}$, $\frac{1}{4}$ or $\frac{1}{3}$ to those with higher denominators.

 © 3P Learning



Rainforest Maths — Level G — Fractions

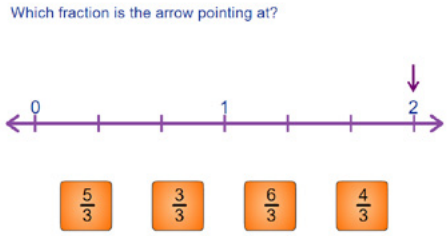
Reducing fractions — explains how to look for common factors when simplifying fractions.



eBook, G series: Fractions, Decimals and Percentages, page 4

Explains how to simplify fractions and provides exercises for practise.

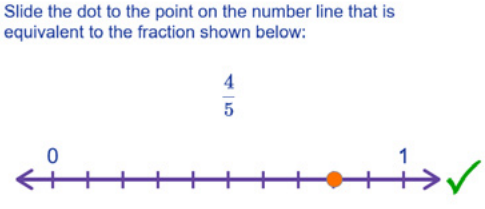
Small step: Fractions on a number line



Topic: Fractions

Activity: *Identifying fractions beyond 1*

Pupils identify improper fractions on a number line.

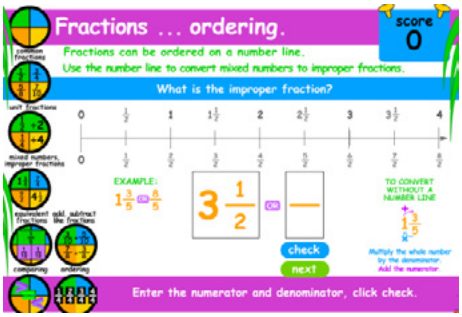


Topic: Fractions

Activity: *Equivalent Fractions on a Number Line 2.*

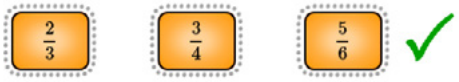
Using a number line from 0–1, pupils position fractions, using their understanding of equivalent fractions.

Small steps:
- Compare and order fractions by the denominator
- Compare and order fractions by the numerator



Rainforest Maths — Level F — Fractions: ordering

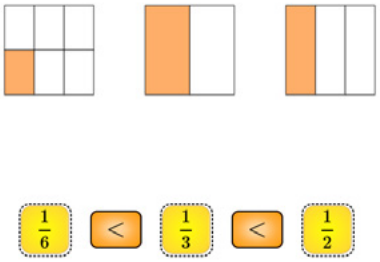
Models fractions on a number line to support the ordering of fractions with the same denominator.



Topic: Fractions

Activity: *Ordering Fractions 1*

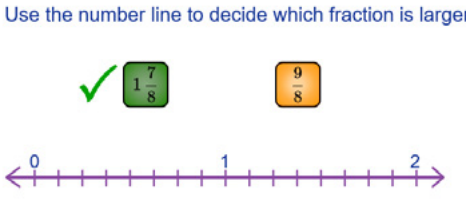
Pupils order fractions from the smallest to the largest — requires understanding of both denominator and numerator.



Topic: Fractions

Activity: *Compare Fractions 2*

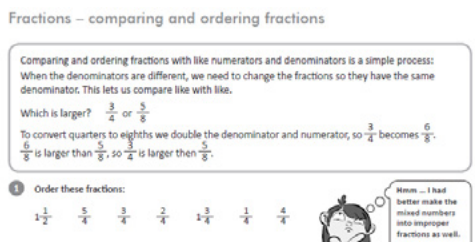
Pupils shade in the models to show the fractions and then sort the fractions into order. Visual supports understanding.



Topic: Fractions

Activity: *Counting with Fractions on a Number Line*

This adaptive activity compares improper and mixed fractions using a number line for support. Same denominator.



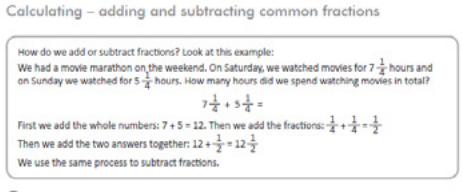
eBook, G series: Fractions, Decimals and Percentages, page 6

Explains ordering of fractions with like and unlike denominators.

Exercises practise the concepts.

 © 3P Learning

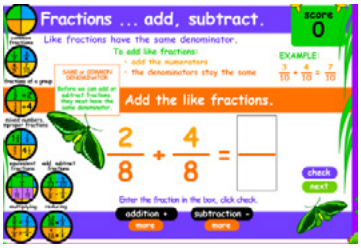
Small steps:
- Add and subtract fractions (1)
- Add and subtract fractions (2)
- Adding fractions
- Subtracting fractions
- Mixed addition and subtraction problems



eBook, G series: Fractions, Decimals and Percentages, page 29

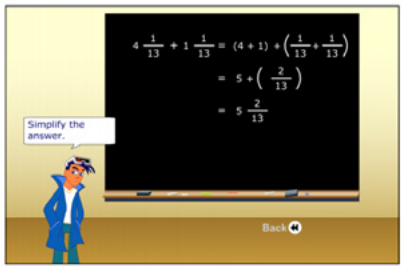
Explains adding and subtracting fractions with a common denominator.

Provides problems and exercises to work through.



Rainforest Maths — Level G — Fractions: Add, subtract

Add and subtract fractions where the demoninators are the same and then move to subtraction of unlike but related denominators.



Topic: Add & Subtract Fractions

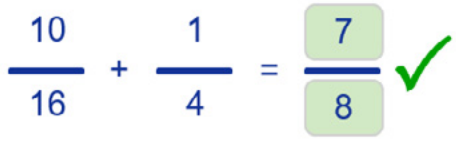
Activity: *Add Like Mixed Numbers*

Pupils add mixed numbers with the same denominator, then simplify.

Topic: Add & Subtract Fractions

Activity: *Subtract Like Mixed Numbers*

Pupils subtract mixed numbers with the same denominator, then simplify.



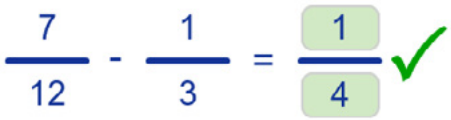
Topic: Add & Subtract Fractions

Activity: *Add Unlike Fractions*

Activites provide addition of unlike but related denominators. Pupils need to find the least common denominator to add the fractions together, then reduce the fraction to its simplest form.

Related activity: *Add Unlike Mixed Numbers*

Add mixed numbers with unlike but related denominators. Find the least common denominator first.



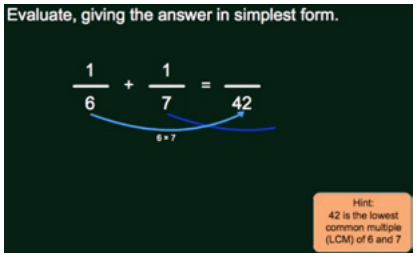
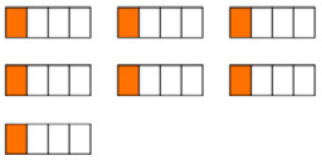
Topic: Add & Subtract Fractions

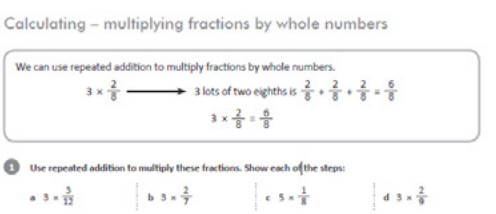
Activity: *Subtract Unlike Fractions*

Pupils need to find the least common denominator first then subtract the fractions and simplify their answers.

Related activity: *Subtract Unlike Mixed Numbers*

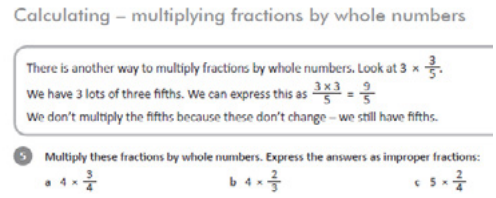
Subtract mixed numbers with unlike but related denominators. Find the least common denominator first.

In a class, $\frac{1}{5}$ of the students have blue eyes and $\frac{1}{3}$ of the class has green eyes. If there are 15 students in the class, how many students had either blue or green eyes? Blue or Green = 8 ✓	Topic: Problem Solving Activity: *More Fraction Problems* This activity has a range of fraction word problems — finding answers involves addition and subtraction of fractions and simplifying answers.
	Topic: Add & Subtract Fractions Activity: *No Common Denominator* This activity provides an explanation of the strategy for adding and subtracting fractions without a common denominator.
Evaluate, giving the answer in simplest form. $\frac{1}{3} + \frac{1}{4} = \frac{\square}{\square}$	Topic: Add & Subtract Fractions Activity: *No Common Denominator* Provides a mix of opportunities to practise addition and subtraction of fractions with no common denominator.
Small step: Multiply fractions by whole number	
$3 \times \frac{3}{4} = \frac{9}{4}$ ✓ 	Topic: Multiply & Divide Fractions Activity: *Fraction by Whole Number* Uses visual models to support the concept of multiplication of fractions by whole numbers. Simplification of answers is not required.
 $7 \times \frac{1}{4} = \frac{7}{4}$ ✓	Topic: Multiply & Divide Fractions Activity: *Model Fractions to Multiply* Pupils complete the visual model and then use it to complete the calculation. No simplification of fractions required.



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

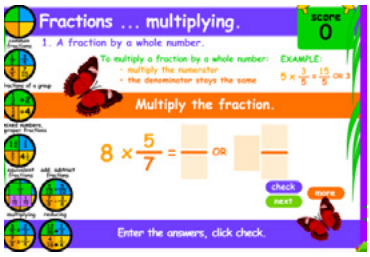
Explains how to multiply fractions by a whole number using repeated addition. Provides examples to work through.



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

Explains how to multiply a fraction by a whole number, by multiplying the numerator, but leaving the denominator unchanged. Also works through converting an improper fraction.

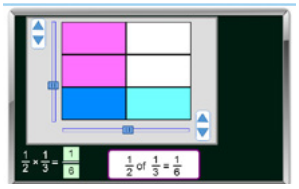
Provides exercises to practise the concept.



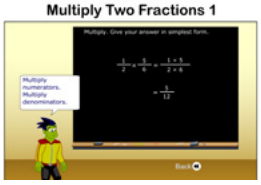
Rainforest Maths — Level G — Multiplying fractions by a whole number

Multiplication of a whole number and fraction. Answers given in both improper and mixed numeral forms.

Small step: Multiply fractions by fraction



Multiply Two Fractions 1



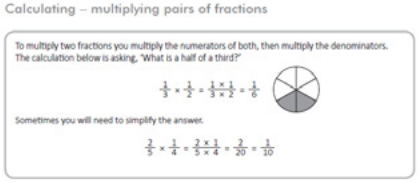
Topic: Multiply & Divide Fractions

Activity: *Multiply Fraction by Fraction*

The support area shows pupils how to use the visual model to multiply the two fractions and find the answer.

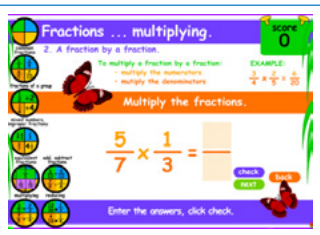
Activity: *Multiply Two Fractions 1*

This activity shows multiplication of two fractions without the use of a visual model for support. Support explains the strategy of multiplying numerator and denominators.



eBook, G series: Fractions, Decimals and Percentages, page 35

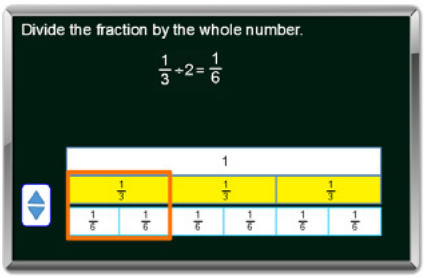
Explains how to multiply a fraction by a fraction and gives examples to work through.



Rainforest Maths — Level G — Fractions — Multiplying
(click MORE for the 'Multiply the fractions' game)

Multiply two fractions. Simplification not required.

Small step: Divide a fraction by a whole number

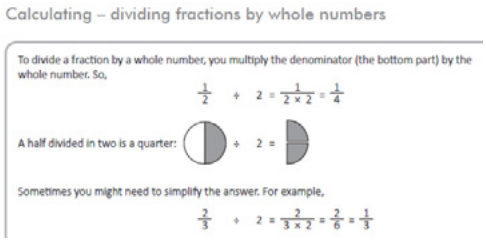


Topic: Multiply & Divide Fractions

Activity: *Divide Fractions Visual Model*

Pupils use the interactive model to work through the exercise — this shows the concept of dividing fractions by a whole number.

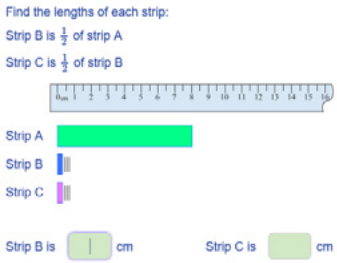
This is an adaptive activity and some answers require simplification.



eBook, G series: Fractions, Decimals and Percentages, page 34

Explains how to divide a fraction by a whole number and gives examples to practise the concept.

Small steps:
- Fraction of an amount
- Fraction of an amount - finding the whole

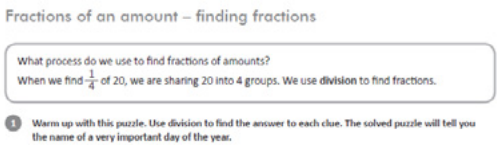


Topic: Problem Solving

Activity: *Fraction Length Models 2*

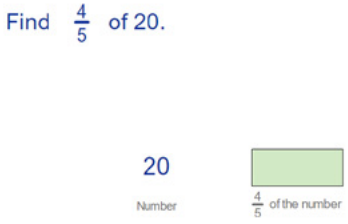
Pupils have to use fractional relationships to work out the different lengths.

The length of the strips can be altered by pupils to help them to visualise and use reasoning to think through their answers.



eBook, G series: Fractions, Decimals and Percentages, page 20

Explains how to find a fraction of an amount. Provides examples of problems to solve and exercises to practise the concept.



Topic: Multiply & Divide Fractions

Activity: *Fraction of an Amount*

Pupils use multiplication to find fractions of amounts.

 © 3P Learning

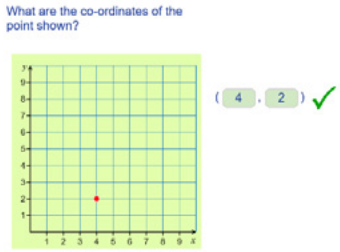
Pete saves $\frac{4}{9}$ of his wages each week. If he saves £180 per week, how much is his total wage? Wage = £	Topic: Multiply & Divide Fractions Activity: *Fraction Word Problems* Solve word problems involving fractions of amounts.
Application of fractions in a rich task	
	eBook, G series: The Gumball Heist (rich task) A video takes pupils through a story scenario involving a 'gumball heist'. Solving the problem involves applying their understanding of fractions and finding fractions of amounts. Pupils can also create similar scenarios to challenge each other.

Examples of alignment to Mathletics

Weeks 11 Geometry

National Curriculum Objectives	WRM Small Steps
▸ Describe positions on the full coordinate grid (all four quadrants). ▸ Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.	▸ Coordinates in the first quadrant ▸ Plotting coordinates ▸ Translations ▸ Reflections ▸ Reasoning about shapes with coordinates

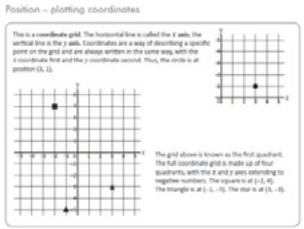
Small step: Coordinates in the first quadrant



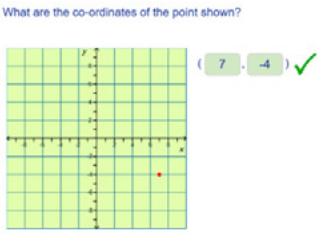
Topic: Position
Activity: *Coordinate Graphs: 1st Quadrant*
Pupils record the coordinates for the marked point.

Rainforest Maths — Level F and G — Position: Coordinates
Provides maps with coordinates in the first quadrant. Pupils find the coordinates of different points on the map.

Small step: Plotting coordinates

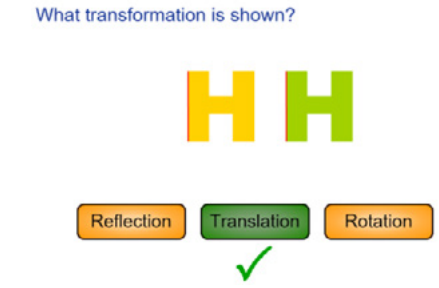


eBook, G series: Geometry, page 40
Explains how to plot coordinates on a grid in the first quadrant and then extends to 4 quadrants.
Includes exercises to practise plotting coordinates and reading them. Moves on to plotting coordinates in order to create shapes.

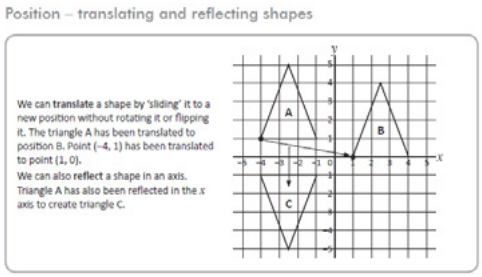


Topic: Position
Activity: *Coordinate Graphs*
Students record the coordinate of a marked point on a 4-quadrant grid.

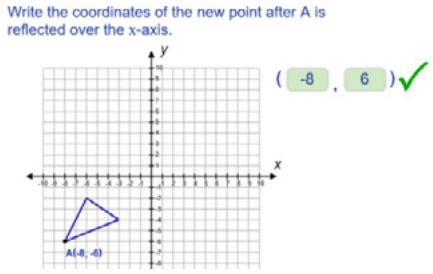
Small step: Translations



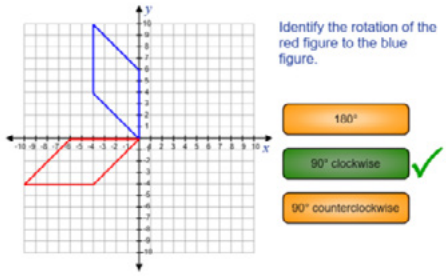
Topic: Position
Activity: *Transformations*
Pupils identify if a shape has been reflected, transformed or rotated.



eBook, G series: Geometry, page 43
Explains translations of shapes across a grid and how to work out the coordinates after a translation.
Exercises to practise translating and reflecting shapes on a 4-quadrant grid.

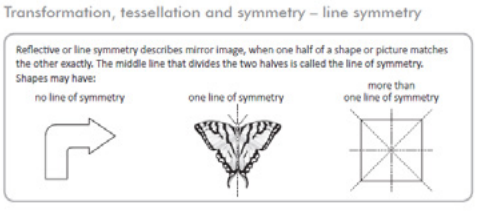


Topic: Position
Activity: *Transformations: Coordinate Plane*
Pupils record the coordinate of a point on a shape after a transformation.



Topic: Position
Activity: *Rotations: Coordinate Plane*
Pupils identify the number of degrees a shape has been rotated to reach a new position on the grid.

Small step: Reflections



eBook, G series: Geometry, page 19
Explains line symmetry and moves on to rotational symmetry and tessellations. Examples and exercises are provided for pupils to explore reflections.
See other related activities above, eg '*Transformations*.'

Small step: Reasoning about shapes with coordinates

What are the new coordinates of (7, -4) if it is shifted 8 units to the left and 5 units downwards?

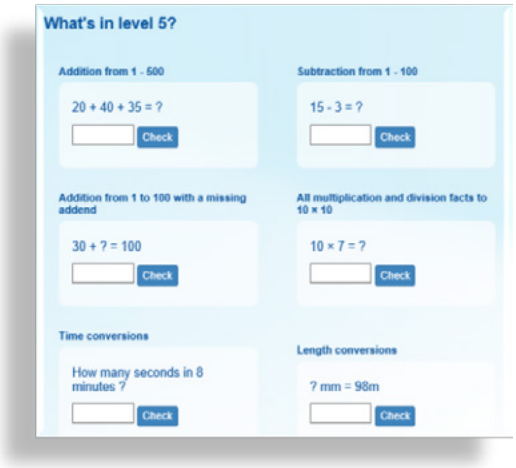
(-1 , -9) ✓

Topic: Position

Activity: *Horizontal and Vertical Change*

Find the coordinates of a point after it has been translated — both horizontally and vertically. No grid is provided, so pupils will need to visualise the changes or record notes in their Maths books to help them reason and find the new coordinates.

Live Mathletics



Live Mathletics engages pupils in one minute games where they are challenged to recall Maths facts.

To support progress in Year 6, pupils should use Level 5.

Teachers can set minimum levels in 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.)

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