

Year 2

Block A: Counting, partitioning and calculating

Unit 1

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



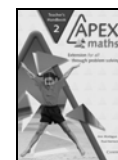
**Talking points
with the
Mult-e-Maths
Toolbox**



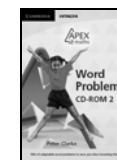
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Present solutions to puzzles and problems in an organised way; explain decisions, methods and results in pictorial, spoken or written form, using mathematical language and number sentences	Apex Maths 2 Activity 3 How old is Granny?
Read and write two-digit and three-digit numbers in figures and words; describe and extend number sequences and recognise odd and even numbers	The Number sequences tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.2 Counting in 1s and 10s N2.6 Numbers in words and figures 2
Count up to 100 objects by grouping them and counting in tens, fives or twos; explain what each digit in a two-digit number represents, including numbers where 0 is a place holder; partition two-digit numbers in different ways, including into multiples of 10 and 1	The Abacus and the Place value chart in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.1 Grouping to count N2.7 Partitioning 2 N2.10 More or less sentences
Order two-digit numbers and position them on a number line; use the greater than (>) and less than (<) signs	The Number lines tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.8 Ordering and ordinal numbers N2.9 Comparing numbers 2
Estimate a number of objects; round two-digit numbers to the nearest 10	The Estimating numbers of objects tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.12 Estimating numbers of objects 2
Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number; use practical and informal written methods to add and subtract two-digit numbers	The Number lines tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.1 Adding as combining sets 2 CA2.2 Adding on a number line CA2.3 Subtracting as taking away 2
Understand that subtraction is the inverse of addition and vice versa; use this to derive and record related addition and subtraction number sentences	101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.8 Subtraction as the inverse of addition

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>zero, ten, twenty, ..., one hundred, two hundred, ..., one thousand, count in ones, twos, threes, fours, fives and so on, odd, even, pattern, sequence, continue, partition numbers, compare, order, larger, greater than, smaller, less than, between, halfway between, difference between, round, nearest 10, tens boundary, roughly, about the same as, calculate, mental calculation, right, correct, wrong, number sentence, sign, operation, symbol, penny/pence (p), pound (£)</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

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**Mult-e-Maths
Toolbox**



**Talking points
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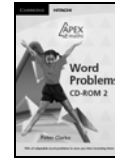
**101 ways to use
the Mult-e-Maths
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Apex Maths 2




**Apex Maths
Word Problems
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Objectives for this unit	Resources and activities
Present solutions to puzzles and problems in an organised way; explain decisions, methods and results in pictorial, spoken or written form, using mathematical language and number sentences	Talking points with the Mult-e-Maths Toolbox N2.2 Differences 101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.3 Sudoku
Read and write two-digit and three-digit numbers in figures and words; describe and extend number sequences and recognise odd and even numbers	The Number grids tool in the Mult-e-Maths Toolbox would be useful for this objective. Talking points with the Mult-e-Maths Toolbox N2.3 Odd and even 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.4 Odd and even numbers 2
Count up to 100 objects by grouping them and counting in tens, fives or twos; explain what each digit in a two-digit number represents, including numbers where 0 is a place holder; partition two-digit numbers in different ways, including into multiples of 10 and 1	The Abacus and the Place value chart in the Mult-e-Maths Toolbox would be useful for this objective. Apex Maths 2 Activity 4 Number generator
Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number; use practical and informal written methods to add and subtract two-digit numbers	The Number grids and Number lines tools in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.4 Subtracting as difference 2 CA2.5 Complementary addition Apex Maths 2 Activity 8 Dart totals
Use the symbols +, −, ×, ÷ and = to record and interpret number sentences involving all four operations; calculate the value of an unknown in a number sentence (e.g. □ ÷ 2 = 6, 30 − □ = 24)	The Symbol pad and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.6 Finding missing numbers 2

End-of-year expectations for this unit are in **bold**.

Vocabulary	
zero, ten, twenty, ..., one hundred, two hundred, ..., one thousand, count in ones, twos, threes, fours, fives and so on, odd, even, pattern, sequence, continue, partition numbers, compare, order, larger, greater than, smaller, less than, between, halfway between, difference between, round, nearest 10, tens boundary, roughly, about the same as, calculate, mental calculation, right, correct, wrong, number sentence, sign, operation, symbol, penny/pence (p), pound (£)	Use A Maths Dictionary for Kids when discussing mathematical vocabulary for this unit. 

Year 2

Block A: Counting, partitioning and calculating

Unit 3

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



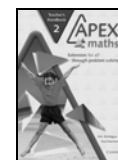
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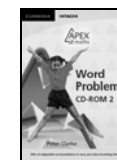
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Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Present solutions to puzzles and problems in an organised way; explain decisions, methods and results in pictorial, spoken or written form, using mathematical language and number sentences	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.15 Spending an exact amount 2 Apex Maths 2 Activity 11 Square numbers
Read and write two-digit and three-digit numbers in figures and words; describe and extend number sequences and recognise odd and even numbers	The Number sequences and Number grids tools in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.3 Number sequences 2
Count up to 100 objects by grouping them and counting in tens, fives or twos; explain what each digit in a two-digit number represents, including numbers where 0 is a place holder; partition two-digit numbers in different ways, including into multiples of 10 and 1	The Place value chart in the Mult-e-Maths Toolbox would be useful for this objective. Talking points with the Mult-e-Maths Toolbox N2.7 Place value 1
Order two-digit numbers and position them on a number line; use the greater than (>) and less than (<) signs	The Symbol pad in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.11 Ordering 2
Estimate a number of objects; round two-digit numbers to the nearest 10	The Estimating numbers of objects and Number lines tools in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.13 Estimating numbers on a number line N2.14 Rounding
Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number; use practical and informal written methods to add and subtract two-digit numbers	The Number lines tool, the Base 10 images in the Maths equipment category of the Image bank , and the Place value mat in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.12 Near doubles 2
Understand that subtraction is the inverse of addition and vice versa; use this to derive and record related addition and subtraction number sentences	Apex Maths 2 Activity 10 Four in a row, emphasising how counting on (i.e. adding) can be used instead of subtracting to find differences.
Use the symbols +, −, ×, ÷ and = to record and interpret number sentences involving all four operations; calculate the value of an unknown in a number sentence (e.g. □ ÷ 2 = 6, 30 − □ = 24)	The Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.14 Calculating with multiples of 10 and 100

End-of-year expectations for this unit are in bold.

Vocabulary	
<p>zero, ten, twenty, ..., one hundred, two hundred, ..., one thousand, count in ones, twos, threes, fours, fives and so on, odd, even, pattern, sequence, continue, partition numbers, compare, order, larger, greater than, smaller, less than, between, halfway between, difference between, round, nearest 10, tens boundary, roughly, about the same as, calculate, mental calculation, right, correct, wrong, number sentence, sign, operation, symbol, penny/pence (p), pound (£)</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block B: Securing number facts, understanding shape

Unit 1

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**Mult-e-Maths
Toolbox**



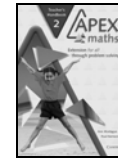
**Talking points
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Toolbox**



**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Describe patterns and relationships involving numbers or shapes, make predictions and test these with examples	<p>Talking points with the Mult-e-Maths Toolbox N2.8 Darts</p> <p>101 ways to use the Mult-e-Maths Toolbox at KS1</p> <p>PS2.9 Investigating dice totals</p> <p>PS2.10 Addition pyramids</p> <p>Apex Maths 2 Activity 6 What's the rule?</p>
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	<p>Talking points with the Mult-e-Maths Toolbox N2.1 What can we buy?</p> <p>Create one-step addition and subtraction problems based on real life or money using Apex Maths Word Problems CD-ROM 2.</p>
Derive and recall all addition and subtraction facts for each number to at least 10, all pairs with totals to 20 and all pairs of multiples of 10 with totals up to 100	<p>The Function machine in the Mult-e-Maths Toolbox would be useful for this objective.</p> <p>101 ways to use the Mult-e-Maths Toolbox at KS1 CF2.1 Addition and subtraction facts 2</p> <p>Apex Maths 2 Activity 5 Next-door numbers</p>
Understand that halving is the inverse of doubling and derive and recall doubles of all numbers to 20, and the corresponding halves	<p>The Function machine in the Mult-e-Maths Toolbox would be useful for this objective.</p> <p>Apex Maths 2 Activity 18 Digits</p>
Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts; recognise multiples of 2, 5 and 10	<p>The Number grids and Number lines tools in the Mult-e-Maths Toolbox would be useful for this objective.</p>
Use knowledge of number facts and operations to estimate and check answers to calculations	<p>The Symbol pad in the Mult-e-Maths Toolbox would be useful for this objective.</p> <p>Ask children to estimate and check their answers to one-step addition and subtraction problems based on real life or money using Apex Maths Word Problems CD-ROM 2.</p>
Visualise common 2-D shapes and 3-D solids; identify shapes from pictures of them in different positions and orientations; sort, make and describe shapes, referring to their properties	<p>The shapes from the Shape and space toolbox in the Mult-e-Maths Toolbox would be useful for this objective.</p> <p>101 ways to use the Mult-e-Maths Toolbox at KS1</p> <p>SS2.1 2-D shapes 2</p> <p>SS2.2 3-D shapes 2</p> <p>Apex Maths 2</p> <p>Activity 21 Make a shape</p> <p>Activity 22 Shape pairs</p>

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solution, calculate, calculation, operation, inverse, answer, method, explain, predict, reason, pattern, relationship, sort, classify, property, add, subtract, multiply, divide, sum, total, difference, plus, minus, half, halve, halved, double, doubled, multiple, odd, even, square, rectangle, rectangular, triangle, triangular, circle, circular, pentagon, hexagon, octagon, pyramid, cube, cuboid, sphere, cone, cylinder, face, corner, edge, side, flat, curved, surface, straight, round, shape, hollow, solid, line of symmetry, fold, mirror line, reflection</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

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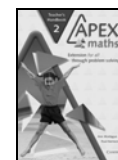
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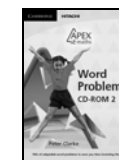
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Apex Maths 2




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Objectives for this unit	Resources and activities
Describe patterns and relationships involving numbers or shapes, make predictions and test these with examples	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.5 Halves and quarters PS2.7 Spotting shapes
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	Talking points with the Mult-e-Maths Toolbox N2.4 Making money Create problems involving all four operations using Apex Maths Word Problems CD-ROM 2 .
Derive and recall all addition and subtraction facts for each number to at least 10, all pairs with totals to 20 and all pairs of multiples of 10 with totals up to 100	The Number grids tool and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. Talking points with the Mult-e-Maths Toolbox N2.6 More number games (Games 1 and 3) Apex Maths 2 Activity 13 Equal totals Activity 16 Two-dice totals
Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts; recognise multiples of 2, 5 and 10	The Number grids tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.5 Multiples Talking points with the Mult-e-Maths Toolbox N2.6 More number games (Games 2 and 4)
Read and write two-digit and three-digit numbers in figures and words; describe and extend number sequences and recognise odd and even numbers	The Number grids and Number sequences tools, and the Place value chart in the Mult-e-Maths Toolbox would be useful for this objective.
Visualise common 2-D shapes and 3-D solids; identify shapes from pictures of them in different positions and orientations; sort, make and describe shapes, referring to their properties	The shapes from the Shape and Space toolbox in the Mult-e-Maths Toolbox would be useful for this objective. Talking points with the Mult-e-Maths Toolbox S2.1 Peepshow 2-D Apex Maths 2 Activity 24 Four-sided shapes
Identify reflective symmetry in patterns and 2-D shapes and draw lines of symmetry in shapes	The 2-D shapes from the Shape and Space toolbox in the Mult-e-Maths Toolbox and their related mirror line tools would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SS2.4 Symmetry

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solution, calculate, calculation, operation, inverse, answer, method, explain, predict, reason, pattern, relationship, sort, classify, property, add, subtract, multiply, divide, sum, total, difference, plus, minus, half, halve, halved, double, doubled, multiple, odd, even, square, rectangle, rectangular, triangle, triangular, circle, circular, pentagon, hexagon, octagon, pyramid, cube, cuboid, sphere, cone, cylinder, face, corner, edge, side, flat, curved, surface, straight, round, shape, hollow, solid, line of symmetry, fold, mirror line, reflection</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block B: Securing number facts, understanding shape

Unit 3

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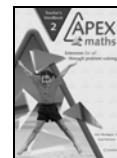
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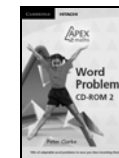
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Apex Maths 2




**Apex Maths
Word Problems
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Objectives for this unit	Resources and activities
Describe patterns and relationships involving numbers or shapes, make predictions and test these with examples	Talking points with the Mult-e-Maths Toolbox S2.2 Shape pictures 101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.4 Multiplication arithmagons PS2.6 How many wheels? PS2.8 Investigating doubles
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	Create appropriate one- and two-step problems involving money and measures using Apex Maths Word Problems CD-ROM 2 .
Derive and recall all addition and subtraction facts for each number to at least 10, all pairs with totals to 20 and all pairs of multiples of 10 with totals up to 100	101 ways to use the Mult-e-Maths Toolbox at KS1 CF2.2 Pairs totaling 20 and 100 Apex Maths 2 Activity 9 Arithmagons Activity 14 Make fifteen
Understand that halving is the inverse of doubling and derive and recall doubles of all numbers to 20, and the corresponding halves	The Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.12 Doubling problem 2
Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts; recognise multiples of 2, 5 and 10	101 ways to use the Mult-e-Maths Toolbox at KS1 CF2.3 Multiplication facts Create appropriate one- and two-step multiplication problems using Apex Maths Word Problems CD-ROM 2 .
Use knowledge of number facts and operations to estimate and check answers to calculations	Apex Maths 2 Activity 12 Solve it!
Visualise common 2-D shapes and 3-D solids; identify shapes from pictures of them in different positions and orientations; sort, make and describe shapes, referring to their properties	The shapes from the Shape and Space toolbox , the Carroll diagrams and the Venn diagrams in the Mult-e-Maths Toolbox would be useful for this objective 101 ways to use the Mult-e-Maths Toolbox at KS1 SS2.3 Pin board shapes Apex Maths 2 Activity 23 Cube shapes Activity 25 Four the same

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solution, calculate, calculation, operation, inverse, answer, method, explain, predict, reason, pattern, relationship, sort, classify, property, add, subtract, multiply, divide, sum, total, difference, plus, minus, half, halve, halved, double, doubled, multiple, odd, even, square, rectangle, rectangular, triangle, triangular, circle, circular, pentagon, hexagon, octagon, pyramid, cube, cuboid, sphere, cone, cylinder, face, corner, edge, side, flat, curved, surface, straight, round, shape, hollow, solid, line of symmetry, fold, mirror line, reflection</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block C: Handling data and measures

Unit 1

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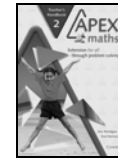
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Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Follow a line of enquiry; answer questions by choosing and using suitable equipment and selecting, organising and presenting information in lists, tables and simple diagrams	The Tally chart tool in the Mult-e-Maths Toolbox would be useful for this objective. Apex Maths 2 Activity 2 Number line
Answer a question by collecting and recording data in lists and tables; represent the data as block graphs or pictograms to show results; use ICT to organise and present data	Apex Maths 2 Activity 1 Frame it!
Use lists, tables and diagrams to sort objects; explain choices using appropriate language, including ‘not’	The Carroll diagrams and Venn diagrams in the Mult-e-Maths Toolbox would be useful for this objective. Talking points with the Mult-e-Maths Toolbox D2.1 Sorting
Estimate, compare and measure lengths, weights and capacities, choosing and using standard units (m, cm, kg, litre) and suitable measuring instruments	The Volume category of the Image bank in the Mult-e-Maths Toolbox would be useful for this objective. Apex Maths 2 Activity 29 Sand weight challenge
Read the numbered divisions on a scale, and interpret the divisions between them (e.g. on a scale from 0 to 25 with intervals of 1 shown but only the divisions 0, 5, 10, 15 and 20 numbered); use a ruler to draw and measure lines to the nearest centimetre	The Measuring cylinder and Kitchen scales tools and the Ruler in the Mult-e-Maths Toolbox would be useful for this objective.

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, question, explain, predict, pattern, collect, organise, compare, order, sort, group, classify, same, different, property, represent, interpret, count, tally, vote, measure, weigh, guess, estimate, information, graph, block graph, pictogram, diagram, symbol, set, list, table, label, title, zero, one, two, three, ..., hundred, first, second, third, ..., more/less, most/least, most/least popular, most/least common, about the same as, enough, not enough, too much, too little, too many, too few, nearly, roughly, about, close to, just over, just under, unit, centimetre (cm), metre (m), kilogram (kg), half-kilogram, litre (l), half-litre, ruler, metre stick, tape measure, balance, scales, container, measuring jug, capacity, weight, length, width, height, depth, size, long, short, tall, high, low, wide, narrow, deep, shallow, thick, thin, and comparatives such as longer/longest, heavier/heaviest, holds more/holds most, shape, curved, straight, hollow, solid, flat, side, corner, point, face, edge, cuboid, pyramid, cone, cylinder, sphere, triangle, circle, rectangle, square</p>	<p>Use A Maths Dictionary for Kids when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block C: Handling data and measures

Unit 2

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Toolbox**



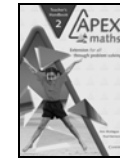
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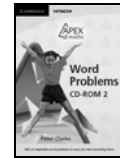
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Follow a line of enquiry; answer questions by choosing and using suitable equipment and selecting, organising and presenting information in lists, tables and simple diagrams	Apex Maths 2 Activity 15 Counter shapes
Answer a question by collecting and recording data in lists and tables; represent the data as block graphs or pictograms to show results; use ICT to organise and present data	The Block graph tool in the Mult-e-Maths Toolbox would be useful for this objective.
Use lists, tables and diagrams to sort objects; explain choices using appropriate language, including ‘not’	The Carroll diagrams and Venn diagrams in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 PP2.1 Sorting multiples
Estimate, compare and measure lengths, weights and capacities, choosing and using standard units (m, cm, kg, litre) and suitable measuring instruments	101 ways to use the Mult-e-Maths Toolbox at KS1 SM2.2 Weighing scales
Read the numbered divisions on a scale, and interpret the divisions between them (e.g. on a scale from 0 to 25 with intervals of 1 shown but only the divisions 0, 5, 10, 15 and 20 numbered); use a ruler to draw and measure lines to the nearest centimetre	The Block graph tool in the Mult-e-Maths Toolbox would be useful for this objective.

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, question, explain, predict, pattern, collect, organise, compare, order, sort, group, classify, same, different, property, represent, interpret, count, tally, vote, measure, weigh, guess, estimate, information, graph, block graph, pictogram, diagram, symbol, set, list, table, label, title, zero, one, two, three, ..., hundred, first, second, third, ..., more/less, most/least, most/least popular, most/least common, about the same as, enough, not enough, too much, too little, too many, too few, nearly, roughly, about, close to, just over, just under, unit, centimetre (cm), metre (m), kilogram (kg), half-kilogram, litre (l), half-litre, ruler, metre stick, tape measure, balance, scales, container, measuring jug, capacity, weight, length, width, height, depth, size, long, short, tall, high, low, wide, narrow, deep, shallow, thick, thin, and comparatives such as longer/longest, heavier/heaviest, holds more/holds most, shape, curved, straight, hollow, solid, flat, side, corner, point, face, edge, cuboid, pyramid, cone, cylinder, sphere, triangle, circle, rectangle, square</p>	<p>Use A Maths Dictionary for Kids when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block C: Handling data and measures

Unit 3

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



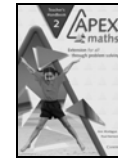
**Talking points
with the
Mult-e-Maths
Toolbox**



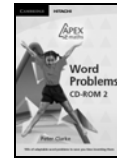
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Follow a line of enquiry; answer questions by choosing and using suitable equipment and selecting, organising and presenting information in lists, tables and simple diagrams	Apex Maths 2 Activity 17 Animal quackers Activity 26 Triangle trap
Answer a question by collecting and recording data in lists and tables; represent the data as block graphs or pictograms to show results; use ICT to organise and present data	The Block graph and Pictogram tools in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 PP2.2 Creating a pictogram
Use lists, tables and diagrams to sort objects; explain choices using appropriate language, including ‘not’	The Carroll diagrams in the Mult-e-Maths Toolbox would be useful for this objective.
Estimate, compare and measure lengths, weights and capacities, choosing and using standard units (m, cm, kg, litre) and suitable measuring instruments	The Ruler in the Mult-e-Maths Toolbox would be useful for this objective. Apex Maths 2 Activity 30 Hoop roll
Read the numbered divisions on a scale, and interpret the divisions between them (e.g. on a scale from 0 to 25 with intervals of 1 shown but only the divisions 0, 5, 10, 15 and 20 numbered); use a ruler to draw and measure lines to the nearest centimetre	The Ruler and the Line tools in the Mult-e-Maths Toolbox would be useful for this objective.

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, question, explain, predict, pattern, collect, organise, compare, order, sort, group, classify, same, different, property, represent, interpret, count, tally, vote, measure, weigh, guess, estimate, information, graph, block graph, pictogram, diagram, symbol, set, list, table, label, title, zero, one, two, three, ..., hundred, first, second, third, ..., more/less, most/least, most/least popular, most/least common, about the same as, enough, not enough, too much, too little, too many, too few, nearly, roughly, about, close to, just over, just under, unit, centimetre (cm), metre (m), kilogram (kg), half-kilogram, litre (l), half-litre, ruler, metre stick, tape measure, balance, scales, container, measuring jug, capacity, weight, length, width, height, depth, size, long, short, tall, high, low, wide, narrow, deep, shallow, thick, thin, and comparatives such as longer/longest, heavier/heaviest, holds more/holds most, shape, curved, straight, hollow, solid, flat, side, corner, point, face, edge, cuboid, pyramid, cone, cylinder, sphere, triangle, circle, rectangle, square</p>	<p>Use A Maths Dictionary for Kids when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block D: Calculating, measuring and understanding shape

Unit 1

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

Mult-e-Maths Toolbox



Talking points with the Mult-e-Maths Toolbox



101 ways to use the Mult-e-Maths Toolbox at KS1



Apex Maths 2




Apex Maths Word Problems CD-ROM 2



Objectives for this unit	Resources and activities
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.11 Making a total 2 Create appropriate problems involving money and measures using Apex Maths Word Problems CD-ROM 2 .
Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number; use practical and informal written methods to add and subtract two-digit numbers	The Number lines and Number grids tools, the Function machine and Money category of the Image bank in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.7 Adding three numbers 2 CA2.9 Counting on from the larger number
Estimate, compare and measure lengths, weights and capacities, choosing and using standard units (m, cm, kg, litre) and suitable measuring instruments	The Ruler in the Mult-e-Maths Toolbox would be useful for this objective.
Read the numbered divisions on a scale, and interpret the divisions between them (e.g. on a scale from 0 to 25 with intervals of 1 shown but only the divisions 0, 5, 10, 15 and 20 numbered); use a ruler to draw and measure lines to the nearest centimetre	The Measuring cylinder and Kitchen scales tools in the Mult-e-Maths Toolbox would be useful for this objective.
Use units of time (seconds, minutes, hours, days) and know the relationships between them; read the time to the quarter hour; identify time intervals, including those that cross the hour	The Clocks and the Stopwatch in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SM2.4 Months of the year Apex Maths 2 Activity 28 Ticker timer
Follow and give instructions involving position, direction and movement	The Square background grid in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SS2.5 Describing positions 2

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solution, puzzle, pattern, method, sign, operation, symbol, number sentence, equation, mental calculation, written calculation, informal method, jottings, diagrams, pictures, images, one thousand, multiple of, nearest, about, add, plus, sum, total, subtract, take away, minus, difference, inverse, coin, pound (£), penny/pence (p), price, cost, pay, costs more/less, change, total, how much?, measuring scale, compare, measure, weigh, metre (m), centimetre (cm), tape measure, kilogram (kg), half-kilogram, gram (g), capacity, contains, litre (l), half-litre, millilitre (ml), direction, route, clockwise, anticlockwise, quarter turn, right angle, straight line, geostrip, time, clock, watch, digital, analogue, hour (h), minute (min), second (s), quarter to, quarter past</p>	<p>Use A Maths Dictionary for Kids when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block D: Calculating, measuring and understanding shape

Unit 2

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



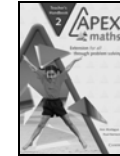
**Talking points
with the
Mult-e-Maths
Toolbox**



**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.13 Combining weights Create one- and two-step problems involving money and measures using Apex Maths Word Problems CD-ROM 2 .
Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number; use practical and informal written methods to add and subtract two-digit numbers	The Number grids tool and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.10 Partitioning CA2.11 Finding a small difference
Estimate, compare and measure lengths, weights and capacities, choosing and using standard units (m, cm, kg, litre) and suitable measuring instruments	The Ruler and the Image bank in the Mult-e-Maths Toolbox would be useful for this objective.
Read the numbered divisions on a scale, and interpret the divisions between them (e.g. on a scale from 0 to 25 with intervals of 1 shown but only the divisions 0, 5, 10, 15 and 20 numbered); use a ruler to draw and measure lines to the nearest centimetre	The Bathroom scales and Block graph tools in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SM2.1 Using a ruler
Use units of time (seconds, minutes, hours, days) and know the relationships between them; read the time to the quarter hour; identify time intervals, including those that cross the hour	The Clocks in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SM2.5 Telling the time Apex Maths 2 Activity 27 Favourite TV programmes
Recognise and use whole, half and quarter turns, both clockwise and anticlockwise; know that a right angle represents a quarter turn	101 ways to use the Mult-e-Maths Toolbox at KS1 SS2.6 Turns 2
Follow and give instructions involving position, direction and movement	101 ways to use the Mult-e-Maths Toolbox at KS1 SS2.8 Directions

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solution, puzzle, pattern, method, sign, operation, symbol, number sentence, equation, mental calculation, written calculation, informal method, jottings, diagrams, pictures, images, one thousand, multiple of, nearest, about, add, plus, sum, total, subtract, take away, minus, difference, inverse, coin, pound (£), penny/pence (p), price, cost, pay, costs more/less, change, total, how much?, measuring scale, compare, measure, weigh, metre (m), centimetre (cm), tape measure, kilogram (kg), half-kilogram, gram (g), capacity, contains, litre (l), half-litre, millilitre (ml), direction, route, clockwise, anticlockwise, quarter turn, right angle, straight line, geostrip, time, clock, watch, digital, analogue, hour (h), minute (min), second (s), quarter to, quarter past</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block D: Calculating, measuring and understanding shape

Unit 3

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



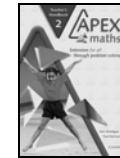
**Talking points
with the
Mult-e-Maths
Toolbox**



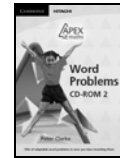
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.14 Totals and change Create appropriate one- and two-step problems involving money and measures using Apex Maths Word Problems CD-ROM 2 .
Add or subtract mentally a one-digit number or a multiple of 10 to or from any two-digit number; use practical and informal written methods to add and subtract two-digit numbers	The Number lines and Number grids tools and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.13 Adding a multiple of 10 and adjusting CA2.15 Bridging 20
Estimate, compare and measure lengths, weights and capacities, choosing and using standard units (m, cm, kg, litre) and suitable measuring instruments	The Ruler and the Kitchen scales and Measuring cylinder tools in the Mult-e-Maths Toolbox would be useful for this objective.
Read the numbered divisions on a scale, and interpret the divisions between them (e.g. on a scale from 0 to 25 with intervals of 1 shown but only the divisions 0, 5, 10, 15 and 20 numbered); use a ruler to draw and measure lines to the nearest centimetre	The Number lines tool and the 0 to 100 Estimating number line in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SM2.3 Measuring cylinders
Use units of time (seconds, minutes, hours, days) and know the relationships between them; read the time to the quarter hour; identify time intervals, including those that cross the hour	The Clocks in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SM2.6 Half hours earlier and later
Recognise and use whole, half and quarter turns, both clockwise and anticlockwise; know that a right angle represents a quarter turn	The shapes from the Shape and Space toolbox , the Background grids and the Angle tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 SS2.7 Right angles

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solution, puzzle, pattern, method, sign, operation, symbol, number sentence, equation, mental calculation, written calculation, informal method, jottings, diagrams, pictures, images, one thousand, multiple of, nearest, about, add, plus, sum, total, subtract, take away, minus, difference, inverse, coin, pound (£), penny/pence (p), price, cost, pay, costs more/less, change, total, how much?, measuring scale, compare, measure, weigh, metre (m), centimetre (cm), tape measure, kilogram (kg), half-kilogram, gram (g), capacity, contains, litre (l), half-litre, millilitre (ml), direction, route, clockwise, anticlockwise, quarter turn, right angle, straight line, geostrip, time, clock, watch, digital, analogue, hour (h), minute (min), second (s), quarter to, quarter past</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block E: Securing number facts, relationships and calculating

Unit 1

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



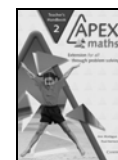
**Talking points
with the
Mult-e-Maths
Toolbox**



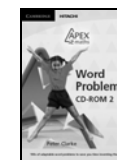
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Identify and record the information or calculation needed to solve a puzzle or problem; carry out the steps or calculations and check the solution in the context of the problem	Apex Maths 2 Activity 19 Pocket money Create appropriate one-step multiplication problems using Apex Maths Word Problems CD-ROM 2 .
Represent repeated addition and arrays as multiplication, and sharing and repeated subtraction (grouping) as division; use practical and informal written methods and related vocabulary to support multiplication and division, including calculations with remainders	The Number lines tool, the Square background grid and the Image bank in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.16 Multiplying as repeated addition CA2.19 Division as grouping
Use the symbols +, −, ×, ÷ and = to record and interpret number sentences involving all four operations; calculate the value of an unknown in a number sentence (e.g. □ ÷ 2 = 6, 30 − □ = 24)	The Symbol pad in the Mult-e-Maths Toolbox would be useful for this objective. Ask children to write number sentences for one-step multiplication problems created using Apex Maths Word Problems CD-ROM 2 .
Understand that halving is the inverse of doubling and derive and recall doubles of all numbers to 20, and the corresponding halves	The Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CF2.4 Doubling and halving
Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts; recognise multiples of 2, 5 and 10	The Number grids tool in the Mult-e-Maths Toolbox would be useful for this objective.
Find one half, one quarter and three quarters of shapes and sets of objects	The Fractions of circles/squares tool, the Square background grid and the Image bank in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.16 Fractions of shapes

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solve, calculate, calculation, inverse, answer, method, explain, predict, pattern, order, place value, partition, ones, tens, hundreds, one-digit number, two-digit number, add, subtract, plus (+), minus (-), sign, equals (=), operation, symbol, number sentence, number line, count on, count back, lots of, groups of, equal groups of, grouping, array, row, column, multiply, multiplication, multiplied by (\times), multiple, share equally, divide, division, divided by (\div), remainder, round up, round down, double, halve, fraction, part, equal parts, one whole, parts of a whole, number of parts, left over, fraction, one half, one quarter, three quarters, one whole</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block E: Securing number facts, relationships and calculating

Unit 2

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



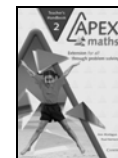
**Talking points
with the
Mult-e-Maths
Toolbox**



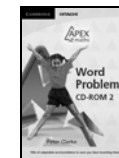
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2




**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Identify and record the information or calculation needed to solve a puzzle or problem; carry out the steps or calculations and check the solution in the context of the problem	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.1 Number stories 2 Create appropriate one-step multiplication and division problems using Apex Maths Word Problems CD-ROM 2 .
Solve problems involving addition, subtraction, multiplication or division in contexts of numbers, measures or pounds and pence	Talking points with the Mult-e-Maths Toolbox N2.5 Equal shares Apex Maths 2 Activity 20 Leapfrog Create appropriate one-step multiplication and division problems using Apex Maths Word Problems CD-ROM 2 .
Represent repeated addition and arrays as multiplication, and sharing and repeated subtraction (grouping) as division; use practical and informal written methods and related vocabulary to support multiplication and division, including calculations with remainders	The Image bank in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.20 Division as sharing CA2.23 Multiplying and dividing by 10
Use the symbols +, −, ×, ÷ and = to record and interpret number sentences involving all four operations; calculate the value of an unknown in a number sentence (e.g. $\square \div 2 = 6$, $30 - \square = 24$)	The Symbol pad and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.18 Using multiplication to solve problems
Understand that halving is the inverse of doubling and derive and recall doubles of all numbers to 20, and the corresponding halves	The Money category of the Image bank and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.22 Doubling and halving as inverses
Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts; recognise multiples of 2, 5 and 10	The Number grids tool in the Mult-e-Maths Toolbox would be useful for this objective.
Find one half, one quarter and three quarters of shapes and sets of objects	The Fractions of circles/squares , Fraction wall and Fraction labels tools, and the Image bank in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.17 Halves on a number line N2.18 Making whole shapes

End-of-year expectations for this unit are in **bold**.

Vocabulary	
<p>problem, solve, calculate, calculation, inverse, answer, method, explain, predict, pattern, order, place value, partition, ones, tens, hundreds, one-digit number, two-digit number, add, subtract, plus (+), minus (-), sign, equals (=), operation, symbol, number sentence, number line, count on, count back, lots of, groups of, equal groups of, grouping, array, row, column, multiply, multiplication, multiplied by (\times), multiple, share equally, divide, division, divided by (\div), remainder, round up, round down, double, halve, fraction, part, equal parts, one whole, parts of a whole, number of parts, left over, fraction, one half, one quarter, three quarters, one whole</p>	<p>Use <i>A Maths Dictionary for Kids</i> when discussing mathematical vocabulary for this unit.</p> 

Year 2

Block E: Securing number facts, relationships and calculating

Unit 3

A range of Cambridge resources can help you to implement the block and unit approach of the renewed Primary Framework for mathematics for Year 2.

**Mult-e-Maths
Toolbox**



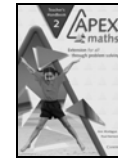
**Talking points
with the
Mult-e-Maths
Toolbox**



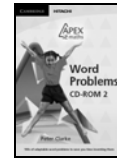
**101 ways to use
the Mult-e-Maths
Toolbox at KS1**



Apex Maths 2



**Apex Maths
Word Problems
CD-ROM 2**



Objectives for this unit	Resources and activities
Identify and record the information or calculation needed to solve a puzzle or problem; carry out the steps or calculations and check the solution in the context of the problem	101 ways to use the Mult-e-Maths Toolbox at KS1 PS2.2 Finding missing numbers Create multiplication and division problems using Apex Maths Word Problems CD-ROM 2 .
Present solutions to puzzles and problems in an organised way; explain decisions, methods and results in pictorial, spoken or written form, using mathematical language and number sentences	Apex Maths 2 Activity 7 Fraction flags
Represent repeated addition and arrays as multiplication, and sharing and repeated subtraction (grouping) as division; use practical and informal written methods and related vocabulary to support multiplication and division, including calculations with remainders	The Square background grid in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.17 Multiplying as describing arrays CA2.24 Multiplying by 2, 3, 4 and 5
Use the symbols +, −, ×, ÷ and = to record and interpret number sentences involving all four operations; calculate the value of an unknown in a number sentence (e.g. □ ÷ 2 = 6, 30 − □ = 24)	The Symbol pad and the Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.21 Missing number multiplications and divisions
Understand that halving is the inverse of doubling and derive and recall doubles of all numbers to 20, and the corresponding halves	The Function machine in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CA2.25 Doubling and halving 2-digit numbers
Derive and recall multiplication facts for the 2, 5 and 10 times-tables and the related division facts; recognise multiples of 2, 5 and 10	The Number grids tool in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 CF2.5 Division facts
Find one half, one quarter and three quarters of shapes and sets of objects	The Image bank and the Square background grid in the Mult-e-Maths Toolbox would be useful for this objective. 101 ways to use the Mult-e-Maths Toolbox at KS1 N2.15 Fractions of quantities N2.19 Fraction bars

End-of-year expectations for this unit are in **bold**.

Vocabulary

problem, solve, calculate, calculation, inverse, answer, method, explain, predict, pattern, order, place value, partition, ones, tens, hundreds, one-digit number, two-digit number, add, subtract, plus (+), minus (-), sign, equals (=), operation, symbol, number sentence, number line, count on, count back, lots of, groups of, equal groups of, grouping, array, row, column, multiply, multiplication, multiplied by (\times), multiple, share equally, divide, division, divided by (\div), remainder, round up, round down, double, halve, fraction, part, equal parts, one whole, parts of a whole, number of parts, left over, fraction, one half, one quarter, three quarters, one whole

Use *A Maths Dictionary for Kids* when discussing mathematical vocabulary for this unit.

