

"Without mathematics, there's nothing you can do. Everything around you is mathematics. Everything around you is numbers." Shakuntala Devi

## Maths National Curriculum Guidance

The principal focus of mathematics teaching in lower key stage 2 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers. At this stage, pupils should develop their ability to solve a range of problems, including with simple fractions and decimal place value. Teaching should also ensure that pupils draw with increasing accuracy and develop mathematical reasoning so they can analyse shapes and their properties, and confidently describe the relationships between them. It should ensure that they can use measuring instruments with accuracy and make connections between measure and number. By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12 multiplication table and show precision and fluency in their work. Pupils should read and spell mathematical vocabulary correctly and confidently, using their growing word reading knowledge and their knowledge of spelling.

The principal focus of mathematics teaching in upper key stage 2 is to ensure that pupils extend their understanding of the number system and place value to include larger integers. This should develop the connections that pupils make between multiplication and division with fractions, decimals, percentages and ratio. At this stage, pupils should develop their ability to solve a wider range of problems, including increasingly complex properties of numbers and arithmetic, and problems demanding efficient written and mental methods of calculation. With this foundation in arithmetic, pupils are introduced to the language of algebra as a means for solving a variety of problems. Teaching in geometry and measures should consolidate and extend knowledge developed in number. Teaching should also ensure that pupils classify shapes with increasingly complex geometric properties and that they learn the vocabulary they need to describe them. By the end of year 6, pupils should be fluent in written methods for all four operations, including long multiplication and division, and in working with fractions, decimals and percentages. Pupils should read, spell and pronounce mathematical vocabulary correctly.

Pupils should develop knowledge about –			
Year 3:	Year 4:	Year 5:	Year 6:
Place Value,	Place Value	Place Value	Place Value
Addition and Subtraction,	Addition and Subtraction	Addition and Subtraction	The Four Op
Multiplication and Division	Area	Multiplication and Division	Fractions
Length and Perimeter	Multiplication and Division	Fractions	Converting
Fractions	Length and Perimeter	Decimals and percentages	Ratio
Mass and Capacity	Fractions	Perimeter and Area	Algebra
Money	Decimals	Statistics	Decimals
Time	Money	Shape	Fractions, D
Shape	Time	Position and Direction	Area, Perim
Statistics	Shape	Decimals	Statistics
	Statistics	Negative Numbers	Shape
		Converting Units	Position and
		Volume	

e perations

Units

ecimals and Percentages eter and Volume

d Direction

<u>Year 3 Autumn</u>	Year 3 Spring	
Topics covered: Block 1: Place Value, Block 2: Addition and Subtraction, Block 3: Multiplication and Division A	Topics covered: Block 1: Multiplication and Division B Block 2: Length and Perimeter Block 3: Fractions A Block 4: Mass and Capacity	Topics covered: Block 1: Fractions Block 2 Money Block 3: Time Block 4: Shape Block 5: Statistics
Block 1: Place Value         Represent numbers to 100         Partitioning numbers to 100         Number line to 100         100s         Represent numbers to 1000         Partitioning numbers to 1000         Partitioning numbers to 1000         Partitioning numbers to 1000         Flexible partitioning of numbers to 1000         IO0s, 10s and 1s         Find 1, 10 or 100 more/less         Number line to 1000         Estimate on a number line to 1000         Compare numbers to 1000         Order numbers to 1000         Order numbers to 1000         Count in 50s         Block 2: Addition and Subtraction         Add and subtract 1s         Add and subtract 1s         Add and subtract 10s         Add and subtract 10s         Add ones across the 10         Add 10s across 100         Subtract 10s across a 100         Subtract 10s across a 100         Make connections         Add two numbers – no exchange	<ul> <li>Block 1: Multiplication and Division B <ul> <li>Multiples of 10</li> <li>Related calculations</li> <li>Reasoning about multiplication</li> <li>Multiply a two-digit number by a one-digit number – no exchange</li> <li>Multiply a two-digit number by a one-digit number – with exchange</li> <li>Link multiplication and division</li> <li>Divide a two-digit number by a one-digit number – no exchange</li> <li>Divide a two-digit number by a one-digit number – no exchange</li> <li>Divide a two-digit number by a one-digit number – no exchange</li> <li>Divide a two-digit number by a one-digit number (flexible partitioning)</li> <li>Divide a two digit number by a one-digit number (with remainders)</li> <li>Scaling</li> <li>How many ways?</li> </ul> </li> <li>Block 2: Length and Perimeter <ul> <li>Measuring m and cm</li> <li>Measuring mm</li> <li>Measuring mm</li> <li>Equivalent length (m and cm)</li> <li>Equivalent length (mm and cm)</li> <li>Compare length</li> <li>Add length</li> <li>Subtract length</li> <li>What is perimeter?</li> </ul> </li> </ul>	<ul> <li>Block 1: Fractions</li> <li>Add fraction</li> <li>Subtract fraction</li> <li>Partition the</li> <li>Unit fraction</li> <li>Non-unit fraction</li> <li>Non-unit fraction</li> <li>Non-unit fraction</li> <li>Reasoning</li> <li>Block 2: Money</li> <li>Pounds and</li> <li>Convert partition</li> <li>Add mone</li> <li>Subtract mile</li> <li>Subtract mile</li> <li>Subtract mile</li> <li>Block 3: Time</li> <li>Roman nur</li> <li>Tell the time</li> <li>Read time</li> <li>Use am and</li> <li>Years, monified</li> <li>Days and he</li> <li>Hours and</li> <li>Minutes an</li> <li>Units of tim</li> <li>Solve problem</li> </ul>
<ul> <li>Add two numbers across 10</li> <li>Add two numbers across 100</li> <li>Subtract two numbers across 10</li> <li>Subtract two numbers across 100</li> <li>Add two-digit and three-digit numbers</li> <li>Subtract a two-digit number from a three-digit number</li> <li>Complements to 100</li> <li>Estimate answers</li> <li>Inverse operations</li> </ul>	<ul> <li>Measure perimeter</li> <li>Calculate perimeter</li> </ul> Block 3: Fractions A <ul> <li>Understand the denominators of unit fractions</li> <li>Compare and order unit fractions</li> <li>Understand the numerator of non-unit fractions</li> <li>Understand the whole</li> <li>Compare and order non-unit fractions</li> </ul>	Block 4: Shape Turns and a Right angle Compare a Measure a Horizontal Parallel and Recognise
Make decisions	<ul> <li>Fractions and scales</li> <li>Fractions on a number line</li> </ul>	Recognise     Make 3D s

## Year 3 Summer

### s B

### 5

s B ons ractions ne whole ons of a set of objects ractions of a set of objects g with fractions of an amount

nd pence ounds and pence ey noney ge

merals to 12 ne to five minutes ne to the minute on a digital clock nd pm nths and days nours minutes – use start and end times minutes – use durations nd seconds e lems with time angles es angles ind draw accurately and vertical nd perpendicular and describe 2D shapes gons and describe 3D shapes napes

Block 3: Multiplication and Division A	<ul> <li>Count in fractions on a number line</li> </ul>	Block 5: Statistics
<ul> <li>Multiplication equal groups</li> </ul>	<ul> <li>Equivalent fractions on a number line</li> </ul>	<ul> <li>Interpret pic</li> </ul>
Use arrays	<ul> <li>Equivalent fractions as bar models</li> </ul>	Draw pictog
<ul> <li>Multiples of two</li> </ul>		<ul> <li>Interpret ba</li> </ul>
<ul> <li>Multiples of 5 and 10</li> </ul>	Block 4: Mass and Capacity	Draw bar ch
<ul> <li>Sharing and grouping</li> </ul>	Use scales	<ul> <li>Collect and</li> </ul>
<ul> <li>Multiplying by 3</li> </ul>	<ul> <li>Measure mass in g</li> </ul>	<ul> <li>Two way tal</li> </ul>
• Divide by 3	<ul> <li>Measure mass in kg and g</li> </ul>	
The 3 times table	Compare mass	
Multiply by 4	<ul> <li>Add and subtract mass</li> </ul>	
Divide by 4	<ul> <li>Measure capacity and volume in ml</li> </ul>	
The 4 times table	<ul> <li>Measure capacity and volume in I and ml</li> </ul>	
Multiply by 8	<ul> <li>Equivalent capacities and volumes I and mI</li> </ul>	
<ul> <li>Divide by 8</li> </ul>	<ul> <li>Compare capacity and volume</li> </ul>	
The 8 times table	<ul> <li>Add and subtract capacity and volume</li> </ul>	
The 2, 4 and 8 times table		

pictograms tograms bar charts <sup>.</sup> charts ind represent data tables

<u>Year 4 Autumn</u>	<u>Year 4 Spring</u>	
Topics covered:	Topics covered:	Topics covered:
Block 1: Place Value	Block 1: Multiplication and Division B	Block 1: Decima
Block 2: Addition and Subtraction	Block 2: Length and Perimeter	Block 2 Money
Block 3: Area	Block 3: Fractions A	Block 3: Time
Block 4: Multiplication and Division A	Block 4: Decimals	Block 4: Shape
Block 1: Place Value	Block 1: Multiplication and Division B	Block 5: Statistics
Represent numbers to 1000	Factor pairs	Make a w
Partitioning numbers to 1000	Use factor pairs	Make a w
Number line to 1000	<ul> <li>Multiply by 10</li> </ul>	Partition d
• 1000s	Multiply by 100	<ul> <li>Flexibly po</li> </ul>
Represent numbers to 10000	Divide by 10	Compare
Partitioning numbers to 10000	Divide by 100	Order dec
Flexible partitioning of numbers to 10000	Related facts multiplication and division	Round to t
• Find 1, 10, 100 or 1000 more/less	Informal written methods for multiplication	Halves and
Number line to 10000	Multiply a two-digit number by a one-digit number	
Estimate on a number line to 10000	Multiply a three-digit number by a one-digit number	Block 2: Money
Compare numbers to 10000	• Divide a two-digit number by a one-digit number (one)	Right mon
Order numbers to 10000	• Divide a two-digit number by a one-digit number (two)	Convert b
Roman numerals	Divide a three-digit number by a one-digit number	Compare
Round to the nearest 10	Correspondence problems	Estimate n
Round to the nearest 100	Efficient multiplication	Calculate
Round to the nearest 1000		Solve prob
<ul> <li>Round to the nearest 10, 100 and 1000</li> </ul>	Block 2: Length and Perimeter	
	<ul> <li>Measuring km and m</li> </ul>	Block 3: Time
Block 2: Addition and Subtraction	<ul> <li>Equivalent length (km and m)</li> </ul>	Years, mor
<ul> <li>Add and subtract 1s, 10s, 100s and 1000s</li> </ul>	Perimeter on a grid	Hours minu
<ul> <li>Add two four-digit numbers (no exchange)</li> </ul>	Perimeter of a rectangle	Convert b
<ul> <li>Add two four-digit numbers (one exchange)</li> </ul>	<ul> <li>Perimeter of a rectangular shape</li> </ul>	Convert to
<ul> <li>Add two four-digit numbers (more than one exchange)</li> </ul>	<ul> <li>Find missing lengths in a rectilinear shapes</li> </ul>	Convert free
<ul> <li>Subtract two four-digit numbers (no exchange)</li> </ul>	<ul> <li>Calculate perimeter of rectilinear shapes</li> </ul>	
Subtract two four-digit numbers (one exchange)	Perimeter of regular polygons	Block 4: Shape
• Subtract two four-digit numbers (more than one exchange)	Perimeter of polygons	Understan
Efficient subtraction		Identity an
Estimate answers	Block 3: Fractions A	Compare
Checking strategies	Understand the whole	Iriangles
	Count beyond one	Quadrilate
Block 3: Area	Partition a mixed number	Polygons
What is area?	Number lines with mixed numbers	Lines of syi
Count squares	Compare and order mixed numbers	Complete
Make shapes	Understand Improper tractions     Convert mixed numbers to imprope or freedings	Die els F. Charlistics
Compare areas	Convert improper fractions to improper fractions	
Pleak A Multiplication and Division A	Convent improper tractions to mixed numbers	
block 4: Multiples of 3	Equivalent fraction families	
<ul> <li>Multiply and divide by 6</li> </ul>	Add two or more fractions	

# Year 4 Summer

### s B

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- hole with tenths
- hole with hundredths
- ecimals
- artition decimals
- decimals
- cimals
- the nearest whole number
- d quarters as decimals
- ney using decimals
- between pounds and pence
- amounts of money
- noney
- with money
- olems with money

nths, weeks and days utes and seconds etween analogue and digital times the 24-hour clock om the 24-hour clock

nd angles as turns ngles and order angles

- erals
- mmetry asymmetric figure

charts on some and difference ne graphs graphs

<ul> <li>The 6 times table and division facts</li> </ul>	<ul> <li>Add fractions and mixed numbers</li> </ul>	<ul> <li>Position ar</li> </ul>
<ul> <li>Multiply and divide by 9</li> </ul>	<ul> <li>Subtract two fractions</li> </ul>	Describe p
<ul> <li>The 9 times table and division facts</li> </ul>	<ul> <li>Subtract from whole amounts</li> </ul>	Plot co-ord
<ul> <li>The 3, 6 and 9 times tables</li> </ul>	<ul> <li>Subtract mixed numbers</li> </ul>	Draw 2D sh
<ul> <li>Multiply and divide by 7</li> </ul>		Translate o
<ul> <li>The 7 times table and division facts</li> </ul>	Block 4: Decimals A	Describe tr
<ul> <li>The 11 times table and division facts</li> </ul>	Tenths as fractions	
<ul> <li>The 12 times table and division facts</li> </ul>	Tenths as decimals	
<ul> <li>Multiply by 1 and 0</li> </ul>	<ul> <li>Tenths on a place value chart</li> </ul>	
<ul> <li>Divide a number by 1 and itself</li> </ul>	<ul> <li>Tenths on a number line</li> </ul>	
<ul> <li>Multiply three numbers</li> </ul>	<ul> <li>Divide a one digit number by 10</li> </ul>	
	<ul> <li>Divide a two digit number by 10</li> <li>Divide a two digit number by 10</li> </ul>	
	Divide d two digit fluttiber by to	
	Hundreaths as tractions	
	Hundredths as decimals	
	<ul> <li>Hundredths on a plave value chart</li> </ul>	
	Divide a one or two-digit number by 100	

nd direction position using co-ordinates dinates shapes on a grid on a grid translation on a grid

<u>Year 5 Autumn</u>	<u>Year 5 Spring</u>	
Topics covered: Block 1: Place Value Block 2: Addition and Subtraction Block 3: Multiplication and Division A Block 4: Fractions A	Topics covered: Block 1: Multiplication and Division B Block 2: Fractions B Block 3: Decimals and percentages Block 4: Perimeter and Area Block 5: Statistics	Topics covered: Block 1: Shape Block 2 Position of Block 3: Decimal Block 4: Negative Block 5: Convert
Block 1: Place Value	Block 1: Multiplication and Division B	Block 6: Volume
<ul> <li>Roman numerals to 1000</li> <li>Numbers to 10,000</li> <li>Numbers to 100,000</li> <li>Numbers to 1,000,000</li> <li>Read and write numbers to 1,000,000</li> <li>Powers of 10</li> <li>10, 100, 1,000, 10,000, 100,000 more or less</li> <li>Partitioning numbers to 1,000,000</li> <li>Number line to 1,000,000</li> <li>Compare and order numbers to 100,000</li> <li>Compare and order numbers to 1,000,000</li> <li>Round to the nearest 10, 100 or 1,000</li> <li>Round within 100,000</li> <li>Round within 100,000</li> </ul>	<ul> <li>Multiply up to a four-digit number by a one-digit number</li> <li>Multiply a two-digit number by a two-digit number (area model)</li> <li>Multiply a two- digit number by a two-digit number</li> <li>Multiply a three-digit number by a two-digit number</li> <li>Multiply a four-digit number by a two-digit number</li> <li>Solve problems with multiplication</li> <li>Short division</li> <li>Divide a four-digit number by a one-digit number</li> <li>Divide with remainders</li> <li>Efficient division</li> <li>Solve problems with multiplication and division</li> </ul>	<ul> <li>Understan</li> <li>Classify an</li> <li>Estimate a</li> <li>Measure c</li> <li>Draw lines</li> <li>Calculate</li> <li>Calculate</li> <li>Length an</li> <li>Regular ar</li> <li>3D shapes</li> </ul> Block 2: Position <ul> <li>Read and</li> <li>Problem of</li> </ul>
	Block 2: Fractions B	<ul> <li>Froblem sc</li> <li>Translation</li> </ul>
<ul> <li>Block 2: Addition and Subtraction</li> <li>Mental strategies</li> <li>Add whole numbers with more than four-digits</li> <li>Subtract whole numbers with more than four-digits</li> <li>Round to check answers</li> <li>Inverse operations (addition and subtraction)</li> <li>Multi-step addition and subtraction problems</li> <li>Find missing numbers</li> </ul>	<ul> <li>Multiply a unit fraction by a integer</li> <li>Multiply a non-unit fraction by a integer</li> <li>Multiply a mined number by a integer</li> <li>Calculate a fraction of a quantity</li> <li>Fraction of an amount</li> <li>Find the whole</li> <li>Use fractions as operators</li> </ul>	<ul> <li>Translation</li> <li>Lines of syr</li> <li>Reflection</li> <li>Block 3: Decimal</li> <li>Use known within 1</li> <li>Complementary</li> </ul>
	Block 3: Decimals and percentages	Add and s
Block 3: Multiplication and Division A         • Multiples         • Common multiples         • Factors         • Common factors         • Prime numbers         • Square numbers         • Cube numbers         • Multiply by 10, 100 and 1000         • Divide by 10, 100 and 1000         • Block 4: Fractions A	<ul> <li>Decimals up to 2dp</li> <li>Equivalent fractions and decimals (tenths)</li> <li>Equivalent fractions and decimals (hundredths)</li> <li>Equivalent fractions and decimals (thousandths as fractions)</li> <li>Thousandths as decimals</li> <li>Thousandths on a place value chart</li> <li>Order and compare decimals (same number of dp)</li> <li>Order and compare any decimals (with up to 3dp)</li> <li>Round to the nearest whole number</li> <li>Round to 1dp</li> <li>Understand percentages</li> <li>Percentages as fractions</li> </ul>	<ul> <li>Add decin places</li> <li>Subtract d places</li> <li>Add decin places</li> <li>Subtract d places</li> <li>Subtract d places</li> <li>Efficient str decimals</li> <li>Decimal se</li> <li>Multiply by</li> <li>Divide by</li> </ul>

## Year 5 Summer

and Direction Is e Numbers ing Units

nd and use degrees ingles angles angles up to 180 degrees and angles accurately angles around a point angles on a straight line angles in shapes nd irregular polygons

### and Direction

plot co-ordinates olving with co-ordinates with co-ordinates mmetry

in horizontal and vertical lines

### ls

n facts to add and subtract decimals

ents to 1

subtract decimals across 1 mals with the same number of decimal

decimals with the same number of decimal

mals with different numbers of decimal

decimals with different numbers of decimal

rategies for adding and subtracting

equences y 10, 100 and 1000 10, 100 and 1000 nd divide decimals by missing values

<ul> <li>Find fractions equivalent to non-unit fractions</li> <li>Recognise equivalent fractions</li> </ul>	<ul> <li>Equivalent fractions, decimals and percentages</li> </ul>	Block 4: Negative
<ul> <li>Convert improper fractions to mixed numbers</li> <li>Convert mixed numbers to improper fractions</li> </ul>	Block A: Perimeter and Area	Understand     Count through
<ul> <li>Compare fractions less than 1</li> </ul>	Perimeter of rectangles	Count through the count t
<ul> <li>Order fractions less than 1</li> </ul>	<ul> <li>Perimeter of rectilinear shapes</li> </ul>	Compare c
Compare and order fractions areater than 1	<ul> <li>Perimeter of polygons</li> </ul>	<ul> <li>Find the diff</li> </ul>
<ul> <li>Add and subtract fractions with the same denominator</li> </ul>	Area of rectanales	
Add fractions within 1	Area of compound shapes	Block 5: Convertir
<ul> <li>Add fractions with a total greater than 1</li> </ul>	Estimate area	kg and km
Add to a mixed number		<ul> <li>mm and ml</li> </ul>
<ul> <li>Add two mixed numbers</li> </ul>	Block 5: Statistics	Convert un
Subtract fractions	Draw line graphs	Convert be
<ul> <li>Subtract from a mixed number</li> </ul>	<ul> <li>Read and interpret line graphs</li> </ul>	Convert un
<ul> <li>Subtract from a mixed number (breaking the whole)</li> </ul>	<ul> <li>Read and interpret tables</li> </ul>	<ul> <li>Calculate u</li> </ul>
<ul> <li>Subtract two mixed numbers</li> </ul>	<ul> <li>Two-way tables</li> </ul>	
	<ul> <li>Read and interpret timetables</li> </ul>	Block 6: Volume
		Cubic cm
		Compare v
		Estimate vo
		<ul> <li>Estimate co</li> </ul>

## ve Numbers

nd negative numbers rough zero in ones rough zero in multiples e and order negative numbers difference

## ting Units

n ml units of length petween metric and imperial units units of time e using times tables

e volume volume capacity

<u>Year 6 Autumn</u>	<u>Year 6 Spring</u>	
Topics covered: Block 1: Place Value Block 2: The Four Operations Block 3: Fractions A Block 4: Fractions B Block 5: Converting Units	Topics covered: Block 1: Ratio Block 2: Algebra Block 3: Decimals Block 4: Fractions, Decimals and Percentages Block 5: Area, Perimeter and Volume	Topics covered: Block 1: Shape Block 2 Position a
Block 1: Place Value <ul> <li>Numbers to 1.000.000</li> </ul>	Block 1: Ratio • Add or multiply	Block 1: Shape • Measure ar
<ul> <li>Numbers to 10,000,000</li> <li>Numbers to 10,000,000</li> <li>Read and write numbers to 10,000,000</li> <li>Powers of 10</li> <li>Number line to 10,000,000</li> <li>Compare and order any integer</li> <li>Round any integer</li> <li>Negative numbers</li> </ul> Block 2: The four operations <ul> <li>Add and subtract integers</li> </ul>	<ul> <li>Use ratio language</li> <li>Introduction to the ratio symbol</li> <li>Ratio and fractions</li> <li>Scale drawing</li> <li>Use scale factors</li> <li>Similar shapes</li> <li>Ratio problems</li> <li>Proportion problems</li> <li>Recipes</li> </ul>	<ul> <li>Calculate di</li> <li>Calculate di</li> <li>Vertically o</li> <li>Angles in a</li> <li>Circles</li> <li>Draw shape</li> <li>Nets of 3D s</li> </ul>
<ul> <li>Common factors</li> </ul>	Block 2: Algebra	
<ul> <li>Common multiples</li> <li>Rules of divisibility</li> <li>Primes to 100</li> <li>Square and cube numbers</li> <li>Multiply up to four-digit numbers by a two-digit number</li> <li>Solve problems using multiplication</li> <li>Short division</li> <li>Division using factors</li> <li>Introduction to long division</li> <li>Long division with remainders</li> <li>Solve problems with division</li> </ul>	<ul> <li>One-step function machines</li> <li>Two-step function machines</li> <li>Form expressions</li> <li>Substitution</li> <li>Formula</li> <li>Form equations</li> <li>Solve one-step equations</li> <li>Solve two-step equations</li> <li>Find pairs of values</li> <li>Solve problems with two unknowns</li> </ul>	<ul> <li>Block 2: Position a</li> <li>The first quo</li> <li>Read and p</li> <li>Solve proble</li> <li>Translations</li> <li>Reflections</li> </ul>
Solve multi-step problems	Block 3: Decimals	
<ul> <li>Order of operations</li> <li>Mental calculations and estimation</li> <li>Reason from known facts</li> </ul>	<ul> <li>Place value within 1</li> <li>Place value integers and decimals</li> <li>Round decimals</li> <li>Add and subtract decimals</li> </ul>	
<ul> <li>Block 3: Fractions A</li> <li>Equivalent fractions and simplifying</li> <li>Equivalent fractions on a number line</li> <li>Compare and order (denominator)</li> <li>Compare and order (numerator)</li> <li>Add and subtract simple fractions</li> <li>Add and subtract any two fractions</li> <li>Add mixed numbers</li> <li>Subtract mixed numbers</li> </ul>	<ul> <li>Multiply by 10, 100 and 1000</li> <li>Divide by 10, 100 and 1000</li> <li>Multiply decimals by integers</li> <li>Divide decimals by integers</li> <li>Multiply and divide decimals in context</li> </ul> Block 4: Fractions, Decimals and Percentages <ul> <li>Decimal and fraction equivalence</li> <li>Fractions as division</li> </ul>	
Multi-step problems	Understand percentages	

# Year 6 Summer

## Ind Direction

ind classify angles

- angles
- opposite angles
- a triangle
- a triangle (special cases) a triangle (missing angles) a quadrilateral
- ı polygon

es accurately shapes

## and Direction

adrant plot points in four quadrants lems with co-ordinates

Block 4: Fractions B	Fractions to percentages	
<ul> <li>Multiply fractions by integers</li> </ul>	<ul> <li>Equivalent fractions, decimals and percentages</li> </ul>	
<ul> <li>Multiply fractions by fractions</li> </ul>	<ul> <li>Order fractions, decimals and percentages</li> </ul>	
<ul> <li>Divide a fraction by an integer</li> </ul>	<ul> <li>Percentage of an amount (one step)</li> </ul>	
<ul> <li>Divide any fraction by an integer</li> </ul>	Percentage of an amount (multi step)	
<ul> <li>Mixed questions with fractions</li> </ul>	<ul> <li>Percentages (missing values)</li> </ul>	
<ul> <li>Fractions of an amount</li> </ul>		
<ul> <li>Fractions of an amount (find the whole)</li> </ul>	Block 5: Area, Perimeter and Volume	
	Shapes (same area)	
Block 5: Converting Units	Area and perimeter	
Metric measures	Area of a triangle (counting squares)	
Convert metric measures	Area of a right angle triangle	
<ul> <li>Calculate with metric measures</li> </ul>	Area of any triangle	
Miles and km	Area of a parallelogram	
<ul> <li>Imperial measures</li> </ul>	<ul> <li>Volume (counting cubes)</li> </ul>	
	Volume of a cuboid	
	Block 6: Statistics	
	Line graphs	
	Dual bar charts	
	Read and interpret bar charts	
	Pie charts with percentages	
	Draw pie charts	
	The mean	
	· · · · ·	