# Mathletics ARK Curriculum

# **Skill Quests**







# Mathletics

ARK Curriculum Skill Quests August, 2022

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# Year 4

#### Autumn

Outcome	Existing Course	Quests	Content
1. Reasoning with 4-digit numbers	KS2 - Year 4	Count in multiples (6, 7, 9, 25 &	Counting in multiples of 6
	KS2 - Year 4	1,000)	Counting in multiples of 7
	KS2 - Year 4		Counting in multiples of 9
	KS2 - Year 4		Counting in multiples of 25
	KS2 - Year 4		Counting in multiples of 1,000
	KS2 - Year 4		Counting in multiples of 6, 7, 9, 25 and 1,000
	KS2 - Year 4	Find 1,000 more or less than a given number	Finding 1,000 more or less than a given number
	KS2 - Year 4	Recognise place value in 4-digit numbers	Recognising the place value of 4-digit numbers
	KS2 - Year 4	Order and compare numbers	Ordering numbers beyond 1,000
	KS2 - Year 4	beyond 1,000	Comparing numbers beyond 1,000
	KS2 - Year 4	ldentify and represent	ldentifying up to 4- digit numbers
	KS2 - Year 4	numbers	Representing 4-digit numbers in numerals and words
	KS2 - Year 4		Estimating numbers
	KS2 - Year 4		Partitioning 4-digit numbers
	KS2 - Year 4	Round numbers	Rounding numbers to the nearest 10, 100 or 1,000
2. Addition and subtraction	KS2 - Year 4	Add and subtract multiples of 1,000	Adding and subtracting multiples of 1,000
	KS2 - Year 4	Formal addition: up to 4-digits	Adding two 4-digit numbers - no exchange
	KS2 - Year 4		Adding two 4-digit numbers - one
			exchange

	KS2 - Year 4		Adding two 4-digit
			numbers: more than
			one exchange
	KS2 - Year 4	Formal	Subtracting two 4-
		subtraction: up to	digit numbers - no
		4-digits	exchange
	KS2 - Year 4		Subtracting two 4-
			digit numbers - one
		-	exchange
	KS2 - Year 4		Subtracting two 4-
			digit number- with
			exchange
	KS2 - Year 4	Estimate & use	Estimating and using
		inverse	inverse operations
	KS2 - Year 4	operations	Checking accuracy of
			calculations
	KS2 - Year 4		Estimating additions
			and subtractions
	KS2 - Year 4	Solve 2-step	Solving addition and
		problems in	subtraction two-step
		context	problems
3. Multiplication and	KS2 - Year 4	Explore	Exploring
division		multiplication by	multiplication by 6
	KS2 - Year 4	6	Recalling and using
			multiplication by 6
	KS2 - Year 4	Explore	Exploring
		multiplication by	multiplication by 7
	KS2 - Year 4	7	Recalling and using
		/	multiplication by 7
	KS2 - Year 4	Explore	Exploring
		multiplication by	multiplication by 9
	KS2 - Year 4	9	Recalling and using
	KJZ - TEUL4	5	multiplication by 9
	KS2 - Year 4	Recall	Recalling multiplication
	KJZ - TEUL4	multiplication by	by 11
		11	by 11
	KS2 - Year 4	Recall	Decalling multiplication
	KSZ - Yeur 4	multiplication by	Recalling multiplication
			by 12
	KS2 - Year 4	12 Explore division	Exploring division by 6
	KSZ - Year 4 KS2 - Year 4		Exploring division by 6
	KSZ - Year 4	by 6	Recalling and using
		Evolore division	division by 6
	KS2 - Year 4	Explore division	Exploring division by 7
	KS2 - Year 4	by 7	Recalling and using
			division by 7
	KS2 - Year 4	Explore division	Exploring division by 9
	KS2 - Year 4	by 9	Recalling and using
			division by 9
	KS2 - Year 4	Divide by 11	Dividing by 11
	KS2 - Year 4	Divide by 12	Dividing by 12
	KS2 - Year 4	Use place value	Multiplying by 1 and 0
	KS2 - Year 4	to multiply and	Dividing by 1
	KS2 - Year 4	divide	Multiplying 3 numbers

	KS2 - Year 4	Find and use	Finding and using
		factor pairs	factor pairs
	KS2 - Year 4	Multiply two-digit	Multiplying 2- and 3-
		& three-digit	digit numbers by 1-
		numbers	digit
4. Interpreting and	KS2 - Year 4	Interpret and	Interpreting and
presenting data		present data: bar	presenting data in a
		chart	bar chart
	KS2 - Year 4	Interpret and	Interpreting and
		present data: line	presenting data in line
		graph	graphs
	KS2 - Year 4	Solve	Solving comparison,
		comparison/	sum and difference
		sum/difference	problems
		problems	

Outcome	<b>Existing Course</b>	Торіс	Activity Name
1. Reasoning with 4-digit	England Year 4	N - Number and	Counting up in 6s
numbers	England Year 4	Place Value	Counting up in 7s
	England Year 4		Which Is Greater?
	England Year 4		Which Is Less?
	England Year 4		Greater Than or Less Than?
	England Year 4		Put in Order 1
	England Year 4		Place Value to Thousands
	England Year 4		Place Value 3
	England Year 4		Partition and Rename 3
	England Year 4		Expanding Numbers
	England Year 4		Missing Numbers 1
	England Year 4	N - Number and	Nearest 10?
	England Year 4	Place Value	Nearest 100?
	England Year 4	Rounding	Nearest 1000?
	England Year 4		Rounding Numbers
2. Addition and	England Year 4	N - Add and	Estimate Sums
subtraction	England Year 4	Subtract Mental	Estimate Differences
	England Year 4		Split Add and Subtract
	England Year 4		Bump Add and Subtract
	England Year 4		Pyramid Puzzles 2
	England Year 4		Count Forward Patterns
	England Year 4		Count Backward Patterns
	England Year 4	N - Add and Subtract Written	Strategies for Column Addition
	England Year 4		Add 3-Digit Numbers
	England Year 4		Add 3-Digit Numbers: Regroup (UK)

	England Year 4	Add Three 3-Digit Numbers: Regroup (UK)	
	England Year 4		3-Digit Differences with Zeros
	England Year 4		Adding Colossal Columns (UK)
	England Year 4		Subtracting Colossal Columns
3. Multiplication and	England Year 4	N - Multiply and	Groups of Six
division	England Year 4	Divide Facts	Groups of Seven
	England Year 4		Groups of Nine
	England Year 4		Dividing Sixes
	England Year 4		Dividing Sevens
	England Year 4		Dividing Nines
	England Year 4		Division Facts to Twelve
	England Year 4		Multiplication Turn- Abouts
4. Interpreting and presenting data	England Year 4	S - Statistics	Add and Subtract Using Graphs
	England Year 4		Interpreting Tables
	England Year 4		Bar Graphs 2
	England Year 4		Reading from a Bar Chart
	England Year 4		Reading from a Column Graph
	England Year 4		Venn Diagram1

## Spring

Outcome	Existing Course	Quests	Content
5. Securing multiplication	KS2 - Year 4	Multiply and	Multiplying and
facts		divide by 6	dividing by 6
	KS2 - Year 4	Multiply and	Multiplying and
		divide by 7	dividing by 7
	KS2 - Year 4	Multiply and	Multiplying and
	KC2 Varia	divide by 9	dividing by 9
	KS2 - Year 4	Multiply and divide by 11	Multiplying and dividing by 11
	KS2 - Year 4	Multiply and	Multiplying and
		divide by 12	dividing by 12
6. Fractions	KS2 - Year 4	Recognise &	Investigating common
		show equivalent	equivalent fractions
		fractions	
	KS2 - Year 4	Count in	Counting in
		hundredths	hundredths
	KS2 - Year 4	Connect tenths	Reading and writing
		and hundredths	tenths & hundredths
	KS2 - Year 4	Solve problems:	Making a whole
	KS2 - Year 4	fractions	Calculating fractions of
			a quantity
	KS2 - Year 4		Problem solving: bar
			models to calculate the whole
	KS2 - Year 4	Add fractions:	Adding fractions with
		same	the same denominator
		denominator	
	KS2 - Year 4	Subtract	Subtracting fractions
		fractions: same	with the same
		denominator	denominator
	KS2 - Year 5	Recognise mixed	Recognising mixed
		numbers and	numbers
	KS2 - Year 5	improper	Converting improper
		fractions	fractions and mixed
7. Time e	KC2 Varia	Consumptions of	numbers
7. Time	KS2 - Year 4	Convert units of measure - Time	Converting units of time
	KS2 - Yegr 4	Read, write and	Reading, writing and
		convert units of	converting units of
		time	time
	KS2 - Year 3	Tell the time:	Telling the time to 5
		analogue clock	minutes on analogue
			clocks
	KS2 - Year 3		Telling the time to the
			minute on analogue
		-	clocks
	KS2 - Year 3	Tell the time: 12-	Telling the time in 12-
		and 24-hour clock	and 24-hour clock

8. Decimals	KS2 - Year 4	Write tenths as	Introducing tenths as
		decimals	decimals
	KS2 - Year 4		Counting in tenths as
			decimals
	KS2 - Year 4	Write hundredths	Introducing decimal
		as decimals	hundredths
	KS2 - Year 4	Recognise and	Recognising and write
		write decimal	decimal equivalents
		equivalents	
	KS2 - Year 4	Divide by 10 and	Dividing by 10
	KS2 - Year 4	100	Dividing by 100
	KS2 - Year 4	Round decimals	Rounding decimals to
		with one decimal	the nearest whole
		place	number
	KS2 - Year 4	Compare and	Comparing and
		order decimal	ordering decimal
		numbers to 2dp	numbers
9. Area and perimeter	KS2 - Year 4	Measure and	Measuring and
		calculate	calculating perimeters
		perimeter	
	KS2 - Year 4	Find the area of	Finding the area of
		rectilinear shapes	rectilinear shapes
	KS2 - Year 3	Measure	Measuring perimeter in
		perimeter of 2-D	cm
		shapes	
	KS2 - Year 5	Calculate and	Introducing the square
		compare area	centimetre and square
			metre
	KS2 - Year 5		Comparing and
			ordering areas
	KS2 - Year 5		Estimating and
			comparing areas of
			irregular shapes

Outcome	<b>Existing Course</b>	Торіс	Activity Name
5. Securing multiplication	England Year 4	N - Multiply and	Mental Methods
facts		Divide	Multiplication
	England Year 4		Multiply 3 single-digit
			numbers
	England Year 4		Related Facts 2
	England Year 4		Grid Methods 1
	England Year 4		Multiply: 2-Digit by 1-
			Digit
	England Year 4		Multiply: 1-Digit
			Number
	England Year 4		Multiply: 1-Digit
			Number, Regroup
6. Fractions	England Year 4	N - Fractions	Counting with
			Fractions on a Number
			Line

	England Year 4		Shading Equivalent
			Fractions
	England Year 4		Equivalent Fraction
	5		Wall 2
	England Year 4		Add Like Fractions
	England Year 4		Subtract Like Fractions
	England Year 4		Common Denominator
	England Year 4		One take Fraction
7. Time	England Year 4	M - Time	24 Hour Time
	England Year 4		Using Timetables
	England Year 4		Elapsed Time
	England Year 4		What Time Will it Be?
	England Year 4		Hours and Minutes
8. Decimals	England Year 4	N - Decimals	Decimal Place Value
	England Year 4		Comparing Decimals
	England Year 4		Comparing Decimals 1
	England Year 4		Decimal Order
9. Area and perimeter	England Year 4	M - Length,	Biggest Shape
	England Year 4	Perimeter and	Equal Areas
	England Year 4	Area	Area of Shapes
	England Year 4		Perimeter of Shapes
	England Year 4		Perimeter: Squares
			and Rectangles 1
	England Year 4		Measuring Length

#### Summer

Outcome	<b>Existing Course</b>	Quests	Content
10. Solving measure and money problems	KS2 - Year 4	Convert units of measure - Length	Converting - km, m, cm and mm
	KS2 - Year 4	Convert units of measure - Time	Converting units of time
	KS2 - Year 4	Money: Estimate, compare, calculate	Estimating and rounding amounts of money
	KS2 - Year 4		Comparing amounts of money (inequality symbols)
	KS2 - Year 4		Solving word problems involving money
11. 2-D shape and symmetry	KS2 - Year 4	Compare and classify geometric shapes	Comparing and classifying quadrilaterals
	KS2 - Year 4		Comparing and classifying triangles
	KS2 - Year 4	Identify, compare and order angles	Identifying, comparing and ordering angles
	KS2 - Year 4	Identify lines of symmetry in 2-D shapes	Identifying lines of symmetry in 2-D shapes
	KS2 - Year 4	Draw lines of symmetry	Drawing lines of symmetry
12. Position and direction	KS2 - Year 4	Describe position - first quadrant	Describing positions on a 2-D grid as coordinates
	KS2 - Year 4	Describe translations - coordinate grid	Describing movement between positions
	KS2 - Year 4	Find missing coordinates on polygons	Plotting specified points to complete a polygon
13. Reasoning with patterns and sequences	KS2 - Year 4	Read Roman numerals to 100	Reading Roman numerals to 100
	KS2 - Year 4	Count using negative numbers	Counting using negative numbers
	KS2 - Year 5	Describe square & cube numbers	Introducing & describing square numbers
14. 3-D shape	KS2 - Year 3	Recognise 3-D shapes	Making models of 3-D shapes
	KS2 - Year 3		Comparing, sorting and naming 3-D shapes

Outcome	Existing Course	Торіс	Activity Name
10. Solving measure and	England Year 4	M- Length,	Operations with
money problems		Perimeter and	Length
		Area	
	England Year 4	M - Units of	Converting cm and
		Measurement	mm
	England Year 4		Centimetres and
		-	Metres
	England Year 4	-	Kilometre Conversions
	England Year 4	-	Metres and Kilometres
	England Year 4	-	Grams and Milligrams
	England Year 4	-	Grams and Kilograms
	England Year 4		Kilogram Conversions
	England Year 4	-	Litre Conversions
	England Year 4		Millilitres and Litres
	England Year 4	N - Add and	Money (GBP)
		Subtract	
		Measures	
	England Year 3	N - Add and	How much Change?
		Subtract Measures	(GBP)
11. 2-D shape and	England Year 4	G - Properties of	Collect the Polygons
symmetry	England Year 4	Shapes	Collect More Shapes
	England Year 4		Collect the Objects 2
	England Year 4		Symmetry or Not?
	England Year 4		Triangle Tasters
	England Year 4	]	Equal Angles
	England Year 4	]	What Type of Angle?
	England Year 4		Classifying Angles
	England Year 4		Symmetry
12. Position and	England Year 4	G - Position and	Map Coordinates
direction	England Year 4	Direction	Following Directions
	England Year 4		Coordinate Meeting Place
	England Year 4		Coordinate Graphs: 1st Quadrant
	England Year 4		Using a Key
13. Reasoning with	England Year 4	N - Number and	Converting to Roman
patterns and sequences		Place Value	Numerals to 100
14. 3-D shape	England Year 3	G - Properties of	Collect the Objects
	England Year 5	Shapes	What Prism am I?

# Year 5

#### Autumn

Outcome	Existing Course	Quests	Content
1. Reasoning with large	KS2 - Year 5	Read and write	Reading and writing
whole numbers		numbers to	numbers to 1,000,000
	KS2 - Year 5	1,000,000	Identifying place value,
			numbers to 1,000,000
	KS2 - Year 5		Comparing and
			ordering numbers to
			1,000,000
	KS2 - Year 5		Using place value to
			partition numbers
	KS2 - Year 5		Using non-standard
		Counting store of	partitioning
	KS2 - Year 5	Count in steps of	Counting in steps of
		powers of 10	powers of 10 up to 1,000,000
	KS2 - Year 5	Round numbers	Rounding numbers
		within 1,000,000	within 1,000,000
	KS2 - Year 5	Read and write	Reading and writing
		Roman numerals to	Roman numerals to
		1,000	1,000
2. Problem solving with	KS2 - Year 5	Add/subtract	Adding whole
integer addition and		numbers up to 5	numbers up to 5 digits
subtraction	KS2 - Year 5	digits	Adding whole
			numbers up to 5 digits
	KS2 - Year 5	Apply efficient	Applying efficient
		add/subtract	add/subtract
		strategies	strategies
	KS2 - Year 5	Use rounding to	Checking accuracy:
		check calculations	addition/subtraction
	KS2 - Year 5	Solve multi-step add/subtract	Solving two-step addition and
		problems	subtraction problems
3. Line graphs and	KS2 - Year 5	Convert units of time	Converting units of
timetables		convert units of time	time
	KS2 - Year 5	Solve problems using	Solving problems
		line graphs	using line graphs
	KS2 - Year 5	Solve problems with	Reading and
		tables	interpreting data in
			tables
	KS2 - Year 5		Representing bivariate
			data in two-way
			tables
A Multiplication 1	KS2 - Year 5	I de la tractica de la companya de la compa	Using timetables
4. Multiplication and	KS2 - Year 5	Identify multiples and	Identifying multiples
division		factors	up to 100

	KS2 - Year 5		Identifying factors and
	KS2 - Year 5	Introduce prime and	common factors
	KSZ - Yeur S	Introduce prime and	Introducing prime and
		composite numbers	composite numbers
	KS2 - Year 5	Use known facts to	Using known facts to
		multiply and divide	multiply
	KS2 - Year 5		Using known facts to
			divide
	KS2 - Year 5		Using known facts to
			multiply and divide
	KS2 - Year 5	Multiply and divide	Multiplying whole
		by 10, 100 and 1,000	numbers by 10, 100
			and 1,000
	KS2 - Year 5		Dividing whole
			numbers by 10, 100
			and 1,000
	KS2 - Year 5	Describe square &	Introducing &
		cube numbers	describing square
			numbers
	KS2 - Year 5		Introducing &
			describing cube
			numbers
	KS2 - Year 5	Solve	Solving problems
		multiplication/division	using factors and
		problems 1	multiples
	KS2 - Year 5		Solving multiplication
	KS2 - Year 5		word problems
			Solving division word problems
	KS2 - Year 5		Comparing square and
			cube numbers
	KS2 - Year 5	Solve add/sub, mult/div problems	Using distributive properties
	KS2 - Year 5		Solving missing
			number problems
5. Perimeter and area	KS2 - Year 5	Calculate perimeter	Calculating perimeter
	KS2 - Year 5	Calculate and	Introducing the square
		compare area	centimetre and square
			metre
	KS2 - Year 5		Comparing and
			ordering areas
	KS2 - Year 5		Estimating and
			comparing areas of
			irregular shapes
	KS2 - Year 5		Calculating the area of
			a rectangle

Outcome	<b>Existing Course</b>	Торіс	Activity Name
1. Reasoning with large	England Year 5	N - Number and	Place Value to Millions
whole numbers	England Year 5	Place Value	Rounding Numbers

England Year 5Converting to Roma Numerals to 1000England Year 5England Year 5Converting to Roma Numerals to 10002. Problem solving with integer addition and subtractionEngland Year 5N - Add and Subtract WrittenAdding Colossal Columns (UK)3. Line graphs and timetablesEngland Year 5M - TimeUsing Timetables4. Multiplication and divisionEngland Year 5N - Multiply and Divide FactsMultiples4. Multiplication and divisionEngland Year 5N - Multiply and Divide FactsMental Methods MultiplicationEngland Year 5N - Multiply and Divide FactsMental Methods MultiplicationEngland Year 5N - Multiply and Divide FactsMental Methods MultiplicationEngland Year 5N - Multiply and Divide MentalMental Methods Division 1England Year 5N - Multiply and Divide MentalMental Methods Division 1England Year 5N - Multiply and Divide MentalMental Methods Division 1England Year 5N - Multiply and Divide MentalMental Methods Division 1	)
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England Year 5 Dividing by 10, 100,	
England Year 5 N - Multiply and Short Multiplication	
England Year 5 Divide Written Contracted	
Multiplication	
England Year 5 Multiply 2 Digits Are	ea
Model	
England Year 5 Long Multiplication	
England Year 5 Divide: 1-Digit Divis	sor
England Year 5 Divide: 1-Digit Divis	sor,
Remainder	
England Year 5 Short Division	
England Year 5 Remainders by Tabl	les
England Year 5 Word Problems:	
Multiply and Divide	
5. Perimeter and area England Year 5 M - Length, Perimeter of Shapes	
England Year 5 Perimeter and Calculate Perimeter	
Area Squares and	
Rectangles	
England Year 5 Area: Squares and	
Rectangles	

### Spring

Outcome	Existing Course	Quests	Content
6. Fractions and decimals	KS2 - Year 5	Compare and order fractions	Comparing/ordering fractions, related denominators
	KS2 - Year 5	Investigate equivalent fractions	Investigating equivalent fractions
	KS2 - Year 5	Recognise mixed numbers and	Recognising mixed numbers
	KS2 - Year 5	improper fractions	Converting improper fractions and mixed numbers
	KS2 - Year 5	Round decimals	Rounding decimals
	KS2 - Year 5	Order and compare decimals	Ordering/comparing decimals,up to 3 decimal places
7. Angles	KS2 - Year 5	Compare angles	Comparing angles
	KS2 - Year 5	Measure angles	Measuring angles
	KS2 - Year 5	Classify angles	Classifying angles
8. Fractions, decimals and percentages	KS2 - Year 5	Add fractions	Adding fractions with the same denominator
	KS2 - Year 5		Adding fractions with related denominators
	KS2 - Year 5		Adding 3 or more fractions using models
	KS2 - Year 5		Adding whole numbers & fractions
	KS2 - Year 5		Adding mixed numbers with the same denominator
	KS2 - Year 5	Subtract fractions	Subtracting fractions with the same denominator
	KS2 - Year 5		Subtracting fractions from a whole number, models
	KS2 - Year 5		Subtracting fractions and mixed numbers
	KS2 - Year 5		Subtracting mixed numbers: same denominator
	KS2 - Year 5		Subtracting mixed numbers: related denominators
	KS2 - Year 5		Adding and subtracting fractions: same denominator
	KS2 - Year 5	Multiply fractions by whole numbers	Multiplying fractions by whole numbers

	KS2 - Year 5	Multiply mixed	Multiplying mixed
		numbers by whole	numbers by whole
		numbers	numbers
	KS2 - Year 5	Introduce	Introducing
		percentages	percentages
	KS2 - Year 5	Solve percentage	Converting common
		equivalence	fractions to
		problems	percentages
	KS2 - Year 6	Fractions, decimals	Representing simple
		and percentages	fractions as
			percentages
	KS2 - Year 6		Representing
			percentages and
			decimals
	KS2 - Year 6		Fraction, decimal and
			percentage
			equivalence
	KS2 - Year 6	Use common factors	Equivalent simple
		and multiples	fractions, related
			denominators
	KS2 - Year 6		Using common factors
			to simplify proper
			fractions
	KS2 - Year 5	Solve	Scaling by fractions
	KS2 - Year 5	multiplication/division	Solving problems
		problems 2	involving simple rates
	KS2 - Year 5	Solve measure	Equivalent measures
		problems with	to 3 decimal places
	KS2 - Year 5	decimals	Solving money
			problems,
			multiplication &
			division
9. Transformations	KS2 - Year 5	Reflections and	Reflections with
		translations	coordinates
	KS2 - Year 5		Translations with
			coordinates
	KS2 - Year 5	Interpret negative	Interpreting negative
	KJZ - TEULJ	numbers in context	numbers in context
	KS2 - Year 6	Positive & negative	Positive and negative
	KJZ - Teur O	_	5
		numbers in context	numbers in context

Outcome	Existing Course	Торіс	Activity Name
6. Fractions and	England Year 5	N - Fractions,	Decimals to Fractions
decimals		Decimals and	1
	England Year 5	Percentage	Fractions to Decimals
	England Year 5		Decimals on a Number
			Line
	England Year 5		Comparing Decimals 2
	England Year 5		Decimal Order
	England Year 5		Decimals from Words
			to Digits 1

	England Year 5		Rounding Decimals
7. Angles	England Year 5	G - Properties of	Comparing Angles
5	England Year 5	Shapes	Measuring Angles
8. Fractions, decimals	England Year 5	N - Fractions	Equivalent Fractions
and percentages	England Year 5		Ordering Fractions
	England Year 5		Equivalent Fractions 1
	England Year 5		Compare Fractions 1b
	England Year 5		Compare Fractions 2
	England Year 5		Shading Equivalent Fractions
	England Year 5		What Mixed Number Is Shaded?
	England Year 5		Mixed to Improper
	England Year 5		Improper to Mixed
	England Year 5		Converting Mixed and Improper
	England Year 5		Mixed and Improper Fractions on a Number Line
	England Year 5		Identifying fractions beyond 1
	England Year 5	N - Fraction Calculations	Add Like Fractions
	England Year 5		Subtract Like Fractions
	England Year 5		Fraction by Whole Number
	England Year 5		Model fractions to multiply
	England Year 5	N - Fractions,	Modelling Percentages
	England Year 5	Decimals and	Decimal to Percentage
	England Year 5	Percentage	Match Decimals and Percentages
	England Year 5		Percentage to Fraction
	England Year 5	N - Problem Solving	Fraction Word Problems
	England Year 5	Joining	Fraction Length Models 2
	England Year 5		Percentage Word Problems
	England Year 5		Money Problems: Four Operations with Pounds
9. Transformations	England Year 5	G - Position and Direction	Transformations

#### Summer

10. Converting units of measure KS2 - Year 5 Convert units of length Converting between mass   KS2 - Year 5 Convert units of length Converting between m, cm & mm   KS2 - Year 5 Convert units of litres & millittes Converting between m, cm & mm   KS2 - Year 5 Convert between metric & imperial units Converting between metric & imperial (length)   KS2 - Year 5 Convert units of litres & millittes Converting between metric & imperial (length)   KS2 - Year 5 Multiply and divide by 10, 100 and 1,000 Multiply and divide by 10, 100 and 1,000   KS2 - Year 5 Multiply and divide by 10, 100 and 1,000 Multiply mode numbers by 10, 100 and 1,000   11. Calculating with whole numbers and decimals KS2 - Year 5 Solve measure problems with decimals Equivalent measures to 3 decimal places   KS2 - Year 5 Multiply and divide by 10, 100 and 1,000 Multiplying decimals by 10, 100 and 1,000   KS2 - Year 5 Multiply and divide by 10, 100 and 1,000 Multiplying decimals by 10, 100 and 1,000   KS2 - Year 5 Multiply and divide by 10, 100 and 1,000 Multiplying numbers up to 4 digits: expanded form   KS2 - Year 5 Multiply numbers up to 4 digits: expanded form Multiplying numbers up to 4 digits: expanded form   KS2 - Year 5 Divide up to 4-digit	Outcome	Existing Course	Quests	Content
KS2 - Year 5Convert units of lengthConverting between m, cm & mmKS2 - Year 5Convert units of capacityConverting between metric & imperial unitsConverting between metric & imperial (length)KS2 - Year 5Convert between metric & imperial unitsConverting between metric & imperial (length)KS2 - Year 5Multiply and divide by 10, 100 and 1,000Multiply and divide by 10, 100 and 1,000KS2 - Year 5Multiply and divide by 10, 100 and 1,000Multiplying whole numbers by 10, 100 and 1,00011. Calculating with whole numbers and decimalsKS2 - Year 5Solve measure problems with decimalsEquivalent measures to 3 decimal placesKS2 - Year 5Solve measure problems with decimalsKS2 - Year 5Solving money problems, multiplication & divisionKS2 - Year 5Multiply numbers up to 4 digitsMultiplying decimals by 10, 100 and 1,000Multiplying numbers up to 4 digits: expanded formKS2 - Year 5KS2 - Year 5Multiply numbers up to 4 digitsMultiplying numbers up to 4 digits: area modelKS2 - Year 5Divide up to 4-digit numbersMultiplying numbers up to 4 digits: area modelKS2 - Year 5Divide up to 4-digit numbersMultiplying numbers up to 4-digit; no remaindersKS2 - Year 5Divide up to 4-digit numbersMultiplying numbers up to 4-digit; no remaindersKS2 - Year 5Divide up to 4-digit numbersDividing numbers up to 4-digit; no remaindersKS2 - Year 5Divide up to 4-dig	10. Converting units of		Convert units of	Converting between
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12. 2-D and 3-D shapeKS2 - Year 4Compare and classify geometric shapesComparing and classifying				
geometric shapes classifying	12. 2-D and 3-D shape	KS2 - Year 4	Compare and classify	
quadriaterals			5	quadrilaterals

	KS2 - Year 4		Comparing and
			classifying triangles
	KS2 - Year 4	Identify, compare	Identifying, comparing
		and order angles	and ordering angles
	KS2 - Year 5	Identify 3-D shapes	Connecting nets of
		from 2-D	3-D shapes
		representations	
	KS2 - Year 6	Name the parts of	Naming the parts of
		circles	circles
13. Volume	KS2 - Year 5	Estimate volume	Estimating volume
			using 1 cm <sup>3</sup> blocks
	KS2 - Year 5	Estimate capacity	Estimating and
			comparing capacity
14. Problem solving	KS2 - Year 5	Solve multi-step	Solving two-step
		add/subtract	addition and
		problems	subtraction problems
	KS2 - Year 5	Solve problems using	Solving problems
		line graphs	using line graphs
	KS2 - Year 5	Solve problems with	Reading and
	KSZ - Teur S	tables	5
		tables	interpreting data in
		4	tables
	KS2 - Year 5		Representing bivariate
			data in two-way
			tables
	KS2 - Year 5		Using timetables
	KS2 - Year 5	Solve	Solving problems
		multiplication/division	using factors and
		problems 1	multiples
	KS2 - Year 5		Solving multiplication
			word problems
	KS2 - Year 5	1	Solving division word
			problems
	KS2 - Year 5		Comparing square
			and cube numbers
	KS2 - Year 5	Solve add/sub,	Using distributive
		mult/div problems	properties
	KS2 - Year 5		Solving missing
			number problems
	KS2 - Year 5	Solve	Scaling by fractions
	KS2 - Year 5		
	NSZ - Teur S	multiplication/division problems 2	Solving problems
			involving simple rates
	KS2 - Year 5	Solve measure	Equivalent measures
		problems with	to 3 decimal places
	KS2 - Year 5	decimals	Solving money
			problems,
			multiplication &
			multiplication a

Outcome	Existing Course	Торіс	Activity Name
10. Converting units of	England Year 5	M - Length,	Converting Units of
measure		Perimeter and	Length
	England Year 5	Area	Converting Units of Area
	England Year 5	M - Volume,	Converting Units of
		Capacity and	Mass
	England Year 5	Mass	Converting Volume
11. Calculating with whole numbers and	England Year 5	N - Multiply and Divide Mental	Multiplying by 10, 100, and 1000
decimals	England Year 5		Dividing by 10, 100, 1000
	England Year 5	N - Fractions, Decimals and Percentage	Multiply Decimals 10 100 1000
	England Year 5	N - Problem Solving	Money Problems: Four Operations with Pounds
	England Year 5	M - Volume, Capacity and	Capacity Word Problems
	England Year 5	Mass	Mass Word Problems
12. 2-D and 3-D shape	KS2 - Year 5	G - Properties of	What Prism am I?
	KS2 - Year 5	Shapes	What Pyramid am I?
	KS2 - Year 5		Prisms and Pyramids
	KS2 - Year 5		Nets
	KS2 - Year 5		Comparing Angles
	KS2 - Year 5		Measuring Angles
	KS2 - Year 5		Triangles: Acute, Right, Obtuse
13. Volume	N/A	Teacher directed	Teacher directed
14. Problem solving	England Year 5	M - Volume, Capacity and	Capacity Word Problems
	England Year 5	Mass	Mass Word Problems
	England Year 5	N - Problem Solving	Money Problems: Four Operations with
			Pounds
	England Year 5		Capacity Word Problems

# Year 6

#### Autumn

Outcome	Existing Course	Quests	Content
1. Integers and decimals	KS2 - Year 6	Read and write numbers to 10,000,000	Reading and writing numbers to 10,000,000
	KS2 - Year 6		Identifying place value up to 10,000,000
	KS2 - Year 6		Using place value to partition 7-digit numbers
	KS2 - Year 6		Comparing and ordering numbers to 10,000,000
	KS2 - Year 6	Round numbers of any size	Rounding numbers of any size
	KS2 - Year 6	Solve add/sub multi-step problems	Solving add/sub word problems
2. Multiplication and division	KS2 - Year 6	Multiply multi- digit numbers	Multiplying 3-digits by 2-digits: expanded form
	KS2 - Year 6		Multiplying 4-digits by 2-digits: algorithm
	KS2 - Year 6	Divide by 2-digits, long division	Dividing by 2-digits, expanded form: long division
	KS2 - Year 6		Dividing by 2-digits, algorithm (long division)
	KS2 - Year 6	Divide by 2-digits, short division	Dividing by 2-digits, algorithm (short division)
	KS2 - Year 6	Identify common factors/ multiples/	Identifying prime and composite numbers
	KS2 - Year 6	primes	Finding common factors for two numbers
	KS2 - Year 6		Finding multiples up to 144
	KS2 - Year 6	Multiply/divide decimals by	Multiplying decimals by 10, 100 and 1,000
	KS2 - Year 6	powers of 10	Dividing decimals by 10, 100 and 1,000
	KS2 - Year 6	Multiply decimals and whole numbers	Multiplying decimals and whole numbers

	KS2 - Year 6	Divide decimals	Dividing desimple and
	KSZ - Yeur o		Dividing decimals and whole numbers
		and whole	whole numbers
		numbers	Forward and a with 2
3. Calculation problems	KS2 - Year 6	Equations with 2	Equations with 2
		unknowns	unknowns
	KS2 - Year 6	Write and solve	Writing and solving
		missing number	equations
		problems	
	KS2 - Year 6	Generate linear	Generating linear
		number	number sequences
	KS2 - Year 6	sequences	Finding the rule for a
			linear number
			sequence
	KS2 - Year 6		Finding the nth term of
			simple linear
			sequences
	KS2 - Year 6	Introduce order of	Introducing order of
			operations
	KS2 - Year 6	operations	
	KSZ - Teur o		Grouping symbols in
		Caluar	order of operations
	KS2 - Year 6	Solve problems	Solving multiplication
		with the 4	and division word
		operations	problems
	KS2 - Year 6		Solving addition and
			subtraction word
			problems
4. Fractions	KS2 - Year 6	Compare and	Comparing and
		order fractions	ordering proper
			fractions
	KS2 - Year 6		Comparing and
			ordering mixed
			numbers
	KS2 - Year 6		Comparing and
			ordering improper
			fractions
	KS2 - Year 6		Comparing and
			ordering fractions and
			mixed numbers
	KS2 - Year 6	Use common	Using common factors
		factors and	to simplify proper
		multiples	fractions
	KS2 - Year 6	Interpret fractions	Interpreting fractions
		as division	as division
	KS2 - Year 6	Convert simple	Converting simple
		fractions to	fractions to decimals
		decimals	
	KS2 - Year 6	Add and subtract	Adding fractions,
		fractions	related denominators
	KS2 - Year 6	nactions	Adding fractions,
	KSZ - Teul O		unrelated
			denominators
	KS2 - Year 6	-	
	KSZ - Year o		Subtracting fractions,
			related denominators

	KS2 - Year 6		Subtracting fractions, unrelated denominators
	KS2 - Year 6		Adding/subtracting fractions, related denominators
	KS2 - Year 6		Add/subtract fractions, unrelated denominators
5. Missing angles and lengths	KS2 - Year 6	Classify geometric shapes	Classifying triangles by their sides and angles
5	KS2 - Year 6		Classifying quadrilaterals by their features
	KS2 - Year 6		Classifying shapes in a hierarchy
	KS2 - Year 6	Find unknown angles	Calculating interior angles of triangles
	KS2 - Year 6		Calculating interior angles of quadrilaterals
	KS2 - Year 6		Calculating interior angles of regular polygons
	KS2 - Year 6	Find missing angles	Adjacent, straight, and vertically opposite angles

Outcome	<b>Existing Course</b>	Торіс	Activity Name
1. Integers and decimals	England Year 6	N - Number and	Put in Order 1
	England Year 6	Place Value	Nearest 100?
	England Year 6		Nearest 1000?
	England Year 6		Rounding Numbers
2. Multiplication and	England Year 6	N - Multiply and	Mental Methods
division		Divide Mental	Multiplication
	England Year 6		Mental Methods
			Division 1
	England Year 6		Multiplying by 10, 100,
			1000
	England Year 6		Dividing by 10, 100,
			1000
	England Year 6	N - Multiply and	Integers: Multiply and
		Divide Written	Divide
	England Year 6		Long Multiplication
	England Year 6		Divide: 1-Digit Divisor
			1
	England Year 6		Divide: 1-Digit Divisor,
			Remainder
	England Year 6		Divide: 2-Digit Divisor,
			Remainder
	England Year 6		Long Division

	England Year 6		Factors
	England Year 6	1	Multiples
3. Calculation problems	England Year 6	N - Patterns and Algebra	Number Sequences up to 1 million
	England Year 6		Word problems with letters
	England Year 6	N - Problem Solving	Order of Operations 1 (BIDMAS)
4. Fractions	England Year 6	N – Fractions	Identifying fractions beyond 1
	England Year 6		Converting Mixed and Improper
	England Year 6		Fractions to Decimals
	England Year 6		Compare fractions 2
	England Year 6		Comparing Fractions 2
	England Year 6		Ordering Fractions 1
	England Year 6		Equivalent Fractions on a Number Line 2
	England Year 6		Counting with Fractions on a Number Line
	England Year 6		Simplifying Fractions
	England Year 6	N - Fractions Calculating	Subtract Like Mixed Numbers
	England Year 6		Add Like Mixed Numbers
	England Year 6	1	Add Unlike Fractions
	England Year 6		Add Unlike Mixed Numbers
	England Year 6	-	Subtract Unlike Fractions
	England Year 6		Subtract Unlike Mixed Numbers
	England Year 6		No Common Denominator
	England Year 6		Mixed Numerals
5. Missing angles and lengths	England Year 6	G - Properties of Shapes and	Angle Sum of a Quadrilateral
	England Year 6	Angles	Angle Sum of a Triangle
	England Year 6		Angles in a Revolution
	England Year 6	G - Properties of Shapes and Position	Triangles: Acute, Right, Obtuse

## Spring

Outcome	Existing Course	Quests	Content
6. Coordinates and shape	KS2 - Year 6	Describe positions, 4 quadrants	Describing positions, 4
			quadrants
	KS2 - Year 6		Drawing polygons on
			the coordinate grid
	KS2 - Year 6	Translations &	Reflections, 4
		reflections, 4	quadrants
	KS2 - Year 6	quadrants	Understanding
			translations, 4
			quadrants
	KS2 - Year 6	Recognise and	Describing and
		describe simple 3-D	naming prisms and
		shapes	pyramids
	KS2 - Year 6		Investigating cross-
			sections of prisms &
			pyramids
	KS2 - Year 6		Connecting 3-D
			shapes with their nets
	KS2 - Year 6	Name the parts of	Naming the parts of
		circles	circles
7. Fractions	KS2 - Year 6	Multiply proper	Multiplying proper
		fractions	fractions
	KS2 - Year 6	Divide proper	Dividing proper
		fractions by whole numbers	fractions by whole numbers
8. Decimals and	KS2 - Year 6		
	KSZ - Yedr 6	Convert measurements,	Converting between common metric units
measures		decimal notation	of length
	KS2 - Year 6		Converting between
			standard metric units
			of mass
	KS2 - Year 6		Converting between
			common metric units
			of capacity
	KS2 - Year 6	Convert between	Converting between
		miles and kilometres	miles and kilometres
	KS2 - Year 6	Area of	Calculating the area of
		parallelograms and	a triangle
	KS2 - Year 6	triangles	Calculating the area of
			a parallelogram
	KS2 - Year 6	Find the volume of	Calculating the
		cubes and cuboids	volume of cubes and
			cuboids
9. Percentages and statistics	KS2 - Year 6	Fractions, decimals	Representing simple
		and percentages	fractions as
			percentages
	KS2 - Year 6		Representing
			percentages and
			decimals

	KS2 - Year 6		Fraction, decimal and percentage equivalence
	KS2 - Year 6	Calculate percentages	Calculating simple percentages
	KS2 - Year 6		Calculating simple percentages of quantities
	KS2 - Year 6	Identifying pie charts and line graphs	Interpreting and constructing pie charts
	KS2 - Year 6		Interpreting and constructing line graphs
	KS2 - Year 6	Calculate and interpret the mean	Calculating and interpreting the mean
10. Proportion problems	KS2 - Year 6	Solve problems involving scale factor	Solving problems involving scale factor
	KS2 - Year 6	Solve problems with unequal quantities	Solving problems involving unequal quantities
	KS2 - Year 6	Solve multiplication/division problems 1	Solving problems using factors and multiples
	KS2 - Year 6	Challenge problems involving ratio	Solving problems involving ratios

Outcome	Existing Course	Торіс	Activity Name
6. Coordinates and	England Year 6	G - Properties of	Coordinate Graphs
shape	England Year 6	Shapes and Position	Transformations: Coordinate Plane
	England Year 6		Rotations: Coordinate Plane
	England Year 6		Horizontal and Vertical Change
	England Year 6		Identify Parts of Circles 1
	England Year 6		Identify Parts of Circles 2
	England Year 6		Nets
7. Fractions	England Year 6	N – Fractions	Fractions to Decimals 2
	England Year 6	N - Fractions Calculating	Multiply Two Fractions 1
	England Year 6		Divide fractions visual model
	England Year 6	N - Decimals and Percentages	Decimals to Fractions 1
8. Decimals and	England Year 6	M - Units of	Grams and Kilograms
measures	England Year 6	Measurement	Grams and Milligrams
	England Year 6		Metres and Kilometres

	England Year 6		Converting Units of
			Mass
	England Year 6		Centimetres and
			Metres
	England Year 6		Operations with
			Length
	England Year 6		Millilitres and Litres
	England Year 6		Converting Volume
	England Year 6	M - Perimeter,	Perimeter Detectives 2
	England Year 6	Area and Volume	Volume: Cuboid 1
	England Year 6		Volume: Rectangular
			Prisms 1
	England Year 6		Area: Right Angled
			Triangles
9. Percentages and	England Year 6	S - Statistics	Finding the Average
statistics	England Year 6		Mean
	England Year 6		Pie Charts
10.Proportion problems	N/A	Teacher directed	Teacher directed



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