Mathletics Mathematics Mastery Curriculum Alignment Tool Skill Quests











Mathletics Mathematics Mastery Curriculum Alignment Tool

Skill Quests August, 2022

The aim of this document is to support Mathletics teachers, who use the Mathematics Mastery programme of learning, to make full use of the resources available within Mathletics. These resources can complement the learning taking place and teachers should use the curriculum alignment map provided to find 'best fit' activities.

Teachers should note that Problem Solving and Reasoning activities are not linked as part of this document and so there will be other suitable activities that will be worth exploring and directing pupils to.

	Mathematics Mastery Yearly Overview: Year 4											
_	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	with 4	Unit 1: Reasoning with 4-digit numbers Unit 2: Ad subti		2: Additio ubtractio		Unit 3: N	Multiplica division		Interpre	it 4: ting and ing data	Consol	lidation

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	ar 4 beyond 1,000	Comparing numbers beyond 1,000
	KS2 - Year 4	Identify and represent	Identifying 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
	K32 - Teul 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	d 6	Recalling and using
			multiplication by 6
	KS2 - Year 4	Explore	Exploring
	102 1041 1	multiplication by	multiplication by 7
	KS2 - Year 4	7	Recalling and using
	102 1041 1		multiplication by 7
	KS2 - Year 4	Explore	Exploring
	102 1041 1	multiplication by	multiplication by 9
	KS2 - Year 4	9	Recalling and using
	1 COL TOUR T		multiplication by 9
	KS2 - Year 4	Recall	Recalling multiplication
	NOZ TCGI T	multiplication by	by 11
		11	5, 11
	KS2 - Year 4	Recall	Recalling multiplication
	NOZ TCGI T	multiplication by	by 12
		12	,
	KS2 - Year 4	Explore division	Exploring division by 6
	KS2 - Year 4	by 6	Recalling and using
			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
	NOL ICUI 4	3	Maidplying 5 Hallibers

	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	Existing Course	Topic	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	England Year 4	S - Statistics	Add and Subtract
presenting data			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

	Mathematics Mastery Yearly Overview: Year 4											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	Unit 5: Securing multiplication facts	ι	Jnit 6: F	- raction	IS	Unit 7: Time	Unit	8: Deci	mals	Unit 9	: Area rimeter	Consolidation

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
	1/02 1/	divide by 9	dividing by 9
	KS2 - Year 4	Multiply and	Multiplying and
	KS2 - Year 4	divide by 11	dividing by 11
	KSZ - Year 4	Multiply and divide by 12	Multiplying and dividing by 12
6. Fractions	KS2 - Year 4	Recognise &	Investigating common
6. Fractions	K3Z - Teul 4	show equivalent	equivalent fractions
		fractions	equivalent 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
	KS2 - Year 4	denominator Subtract	Cubtracting fractions
	KSZ - Yeur 4	fractions: same	Subtracting fractions 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
			numbers
7. Time	KS2 - Year 4	Convert units of	Converting units of
	1/02 1/	measure - Time	time
	KS2 - Year 4	Read, write and	Reading, writing and
		convert units of time	converting units of time
	KS2 - Year 3	Tell the time:	Telling the time to 5
	NJZ - TEUL J	analogue clock	minutes on analogue
		a raiogae ciock	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 decimals	Introducing tenths as decimals
	KS2 - Year 4		Counting in tenths as decimals
	KS2 - Year 4	Write hundredths as decimals	Introducing decimal hundredths
	KS2 - Year 4	Recognise and write decimal equivalents	Recognising and write decimal equivalents
	KS2 - Year 4	Divide by 10 and	Dividing by 10
	KS2 - Year 4	100	Dividing by 100
	KS2 - Year 4	Round decimals with one decimal place	Rounding decimals to the nearest whole number
	KS2 - Year 4	Compare and order decimal numbers to 2dp	Comparing and ordering decimal numbers
9. Area and perimeter	KS2 - Year 4	Measure and calculate perimeter	Measuring and calculating perimeters
	KS2 - Year 4	Find the area of rectilinear shapes	Finding the area of rectilinear shapes
	KS2 - Year 3	Measure perimeter of 2-D shapes	Measuring perimeter in cm
	KS2 - Year 5	Calculate and compare area	Introducing the square centimetre and square metre
	KS2 - Year 5		Comparing and ordering areas
	KS2 - Year 5		Estimating and comparing areas of irregular shapes

Outcome	Existing Course	Topic	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
			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

	Mathematics Mastery Yearly Overview: Year 4											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Summer	me	: 10: Sol easure a ey prob	and	Shap	2 :11D e and metry	Unit 11: 2-D Shape and Symmetry	Unit 12: Position and Direction	Reason	t 13: ing with ns and ences	Unit 3 :14D Shape	Consol	lidation

Summer

10. Solving measure and money problems KS2 -	ting Course Year 4	Quests Convert units of	Content Converting - km, m,
KS2 -			J,,
		measure - Length	cm and mm
	Year 4	Convert units of	Converting units of
		measure - Time	time
KS2 -	Year 4	Money: Estimate,	Estimating and
		compare,	rounding amounts of
		calculate	money
KS2 -	Year 4		Comparing amounts of
			money (inequality
1/00			symbols)
KS2 -	Year 4		Solving word problems
11.25.1			involving money
· · · · · · · · · · · · · · · · · · ·	Year 4	Compare and	Comparing and
symmetry		classify geometric	classifying
KC3	Year 4	shapes	quadrilaterals
K52 -	rear 4		Comparing and classifying triangles
KS3	Year 4	Identify, compare	Identifying, comparing
K32 -	rear 4	and order angles	and ordering angles
KS2 -	Year 4	Identify lines of	Identifying lines of
NS2	rear r	symmetry in 2-D	symmetry in 2-D
		shapes	shapes
KS2 -	Year 4	Draw lines of	Drawing lines of
		symmetry	symmetry
12. Position and KS2 -	Year 4	Describe position	Describing positions on
direction		- first quadrant	a 2-D grid as
			coordinates
KS2 -	Year 4	Describe	Describing movement
		translations -	between positions
		coordinate grid	
KS2 -	Year 4	Find missing	Plotting specified
		coordinates on	points to complete a
12 December with KC2	V 1	polygons	polygon
3	Year 4	Read Roman numerals to 100	Reading Roman numerals to 100
patterns and sequences	Year 4	Count using	Counting using
K32 -	reur 4	negative numbers	negative numbers
KS2 -	Year 5	Describe square &	Introducing &
K3Z -	redi 5	cube numbers	describing square
			numbers
14. 3-D shape KS2 -	Year 3	Recognise 3-D	Making models of 3-D
		shapes	shapes
KS2 -	Year 3		Comparing, sorting
			and naming 3-D
			shapes

Outcome	Existing Course	Topic	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
	- L 124		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	
	- L IV	Measures	
	England Year 3	N - Add and	How much Change?
		Subtract	(GBP)
11 2 D ah aya a aya d	Francisco d Valera 4	Measures	Callagt the Dalvers
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 England Year 4		Equal Angles 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
direction	England Year 4	Direction	Coordinate Meeting
	Lingiana real 4		Place
	England Year 4		Coordinate Graphs: 1st
	Lingiana real 4		Quadrant
	England Year 4		Using a Key
13. Reasoning with	England Year 4	N - Number and	Converting to Roman
patterns and sequences	Lingiana real 4	Place Value	Numerals to 100
14. 3-D shape	England Year 3	G - Properties of	Collect the Objects
5 2 55,50	England Year 5	Shapes	What Prism am I?
	Lingiana rear 5	J.14000	TTHACT HOME WITH

	Mathematics Mastery Yearly Overview: Year 5											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Reason large	it 1: ing with whole bers	Unit 2: F solving integer and sub	addition	Unit 3 graph timet			Multipl Id divisi		Unit 5: Perimeter and area	Consol	lidation

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
	K32 - Teal 3		partition numbers
	KS2 - Year 5		Using non-standard
	102 10410		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
	1/00)/ 5	within 1,000,000	within 1,000,000
	KS2 - Year 5	Read and write Roman numerals to	Reading and writing Roman numerals to
		1,000	1,000
2. Problem solving with	KS2 - Year 5	Add/subtract	Adding whole
integer addition and	NOZ TEGITO	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
	1/00)/ 5	strategies	strategies
	KS2 - Year 5	Use rounding to	Checking accuracy:
	KS2 - Year 5	check calculations Solve multi-step	addition/subtraction Solving two-step
	K32 - Teur 5	add/subtract	addition and
		problems	subtraction problems
3. Line graphs and	KS2 - Year 5	Convert units of time	Converting units of
timetables			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
	NOZ TCOLO		data in two-way
			tables
	KS2 - Year 5		Using timetables
4. Multiplication and	KS2 - Year 5	Identify multiples and	Identifying multiples
division		factors	up to 100
		13	

	KS2 - Year 5		Identifying factors and common factors
	KS2 - Year 5	Introduce prime and	
	R32 - Tedi 5	•	Introducing prime and
		composite numbers	composite numbers
	KS2 - Year 5	Use known facts to multiply and divide	Using known facts to 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 by 10, 100 and 1,000	Multiplying whole numbers by 10, 100 and 1,000
	KS2 - Year 5		Dividing whole numbers by 10, 100 and 1,000
	KS2 - Year 5	Describe square & cube numbers	Introducing & describing square numbers
	KS2 - Year 5		Introducing & describing cube numbers
	KS2 - Year 5	Solve multiplication/division problems 1	Solving problems using factors and multiples
	KS2 - Year 5	, p. 100 100 100 100 100 100 100 100 100 10	Solving multiplication word problems
	KS2 - Year 5		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 compare area	Introducing the square 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	Existing Course	Topic	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 5		Converting to Roman Numerals to 1000
	England Year 5		Converting from Roman Numerals to 1000
2. Problem solving with integer addition and	England Year 5	N - Add and Subtract Written	Adding Colossal Columns (UK)
subtraction	England Year 5		Subtracting Colossal Columns
3. Line graphs and timetables	England Year 5	M – Time	Using Timetables
4. Multiplication and	England Year 5	N - Multiply and	Multiples
division	England Year 5	Divide Facts	Factors
	England Year 5	N - Multiply and Divide Mental	Mental Methods Multiplication
	England Year 5		Mental Methods Division 1
	England Year 5		Multiplying by 10, 100, and 1000
	England Year 5		Dividing by 10, 100, 1000
	England Year 5	N - Multiply and	Short Multiplication
	England Year 5	Divide Written	Contracted Multiplication
	England Year 5		Multiply 2 Digits Area Model
	England Year 5		Long Multiplication
	England Year 5		Divide: 1-Digit Divisor 1
	England Year 5		Divide: 1-Digit Divisor, Remainder
	England Year 5		Short Division
	England Year 5		Remainders by Tables
	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 Area	Calculate Perimeter of Squares and
	England Year 5		Rectangles Area: Squares and Rectangles

Mathematics Mastery Yearly Overview: Year 5												
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Spring	Unit 6	6: Fractior decimals		Unit 7:	Angles		3: Fractior ercentage			t 9: mations	Consol	lidation

Spring

Outcome	Existing Course	Quests	Content
6. Fractions and	KS2 - Year 5	Compare and order	Comparing/ordering
decimals		fractions	fractions, related
			denominators
	KS2 - Year 5	Investigate	Investigating
		equivalent fractions	equivalent fractions
	KS2 - Year 5	Recognise mixed	Recognising mixed
		numbers and	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	Ordering/comparing
		decimals	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	KS2 - Year 5	Add fractions	Adding fractions with
and percentages			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,
	1/00 \/ 5		models
	KS2 - Year 5		Subtracting fractions
	VC2 - V F		and mixed numbers
	KS2 - Year 5		Subtracting mixed
			numbers: same
	KS2 - Year 5		denominator
	NSZ - TEULD		Subtracting mixed numbers: related
			denominators
	KS2 - Year 5		Adding and
	K3Z - Teur 3		subtracting fractions:
			same denominator
	KS2 - Year 5	Multiply fractions by	Multiplying fractions
	KJZ - Teur J	whole numbers	by whole numbers
		WHOLE HUITIDELS	by whole numbers

	KS2 - Year 5	Multiply mixed	Multiplying mixed
	KSZ - Year 5	Multiply 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
	102 10410		percentage
			equivalence
	KS2 - Year 6	Use common factors	Equivalent simple
	RSZ TCGI O	and multiples	fractions, related
		and marapies	denominators
	KS2 - Year 6		Using common factors
	K32 - Teul 0		_
			to simplify proper fractions
	1/C2		
	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
		numbers in context	numbers in context
	KS2 - Year 6	Positive & negative	Positive and negative
		numbers in context	numbers in context
		Harrisers in context	Hambers in context

Outcome	Existing Course	Topic	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
	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	Fraction Word
		Solving	Problems
	England Year 5		Fraction Length
			Models 2
	England Year 5		Percentage Word
			Problems
	England Year 5		Money Problems: Four
			Operations with
0.7	- 1 1); -	0 5	Pounds
9. Transformations	England Year 5	G - Position and	Transformations
		Direction	

	Mathematics Mastery Yearly Overview: Year 5											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Summer	Convert	t 10: ing units easure	with w	1: Calcu hole nu d decim	ımbers		2-D and shape	Unit 13: Volume	Unit 14:	Problem ving	Consol	lidation

Summer

Outcome	Existing Course	Quests	Content	
10. Converting units of	KS2 - Year 5	Convert units of	Converting between	
measure		mass	kilograms and grams	
	KS2 - Year 5	Convert units of	Converting between	
		length	m, cm & mm	
	KS2 - Year 5	Convert units of	Converting between	
		capacity	litres & millilitres	
	KS2 - Year 5	Convert between	Converting between	
		metric & imperial	metric and imperial	
		units	(length)	
	KS2 - Year 5		Converting between	
			metric and imperial	
			(capacity)	
	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	
11. Calculating with	KS2 - Year 5	Solve measure	Equivalent measures	
whole numbers and		problems with	to 3 decimal places	
decimals	KS2 - Year 5	decimals	Solving money	
			problems,	
			multiplication &	
			division	
	KS2 - Year 5	Multiply and divide	Multiplying decimals	
		by 10, 100 and 1,000	by 10, 100 and 1,000	
	KS2 - Year 5		Dividing decimals by	
	1/00)/ 5	N. 4. 1. 1. 1. 1.	10, 100 and 1,000	
	KS2 - Year 5	Multiply numbers up	Multiplying numbers	
		to 4 digits	up to 4 digits:	
	1/C2		expanded form	
	KS2 - Year 5		Multiplying numbers	
			up to 4 digits: area	
	KS2 - Year 5		model	
	KSZ - feul 5		Multiplying numbers	
			up to 4-digits: algorithm	
	KS2 - Year 5	Divide up to 4-digit	Dividing numbers up	
	K32 - Teal 3	numbers	to 4-digit, no	
		Hambers	remainders	
	KS2 - Year 5		Introducing	
	1.02 1001 5		remainders in division	
			problems	
	KS2 - Year 5		Dividing numbers up	
			to 4-digit, remainders	
12. 2-D and 3-D shape	KS2 - Year 4	Compare and classify	Comparing and	
a oapc		geometric shapes	classifying	
		J 5	quadrilaterals	
			quadrilatoralo	

		ı	
	KS2 - Year 4		Comparing and
	1/02 1/	11 .:6	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 cm³ 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
		tables	interpreting data in
			tables
	KS2 - Year 5		Representing bivariate
	NOZ TEGITO		data in two-way
			tables
	KS2 - Year 5		Using timetables
	KS2 - Year 5	Solve	Solving problems
	NSZ TCGI S	multiplication/division	using factors and
		problems 1	multiples
	KS2 - Year 5	problems 1	Solving multiplication
	K32 - Teur 3		word problems
	KS2 - Year 5		Solving division word
	TROZ TEGITO		problems
	KS2 - Year 5		Comparing square
			and cube numbers
	KS2 - Year 5	Solve add/sub,	Using distributive
		mult/div problems	properties
	KS2 - Year 5	,, p. c.s. o	Solving missing
	1.32 1.541.5		number problems
	KS2 - Year 5	Solve	Scaling by fractions
	KS2 - Year 5	multiplication/division	Solving problems
	NOZ TOUT J	problems 2	involving simple rates
	KS2 - Year 5	Solve measure	Equivalent measures
	NOZ - TCUI J	problems with	to 3 decimal places
	KS2 - Year 5	decimals	Solving money
	KSZ - Teul 5	decimuis	,
			problems,
			multiplication &
			division

Outcome	Existing Course	Topic	Activity Name
10. Converting units of measure	England Year 5	M - Length, Perimeter and	Converting Units of Length
	England Year 5	Area	Converting Units of Area
	England Year 5	M - Volume, Capacity and	Converting Units of 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

	Mathematics Mastery Yearly Overview: Year 6											
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn		ntegers cimals		: Multipli nd divisio		Calcu	it 3: Ilation Ilems		it 4: tions	Unit 5: Missing angles and lengths	Conso	lidation

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 and whole numbers	Dividing decimals and whole numbers
3. Calculation problems	KS2 - Year 6	Equations with 2 unknowns	Equations with 2 unknowns
	KS2 - Year 6	Write and solve missing number problems	Writing and solving equations
	KS2 - Year 6	Generate linear number	Generating linear 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 operations	Introducing order of operations
	KS2 - Year 6		Grouping symbols in order of operations
	KS2 - Year 6	Solve problems with the 4 operations	Solving multiplication and division word problems
	KS2 - Year 6		Solving addition and subtraction word problems
4. Fractions	KS2 - Year 6	Compare and order fractions	Comparing and 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 factors and multiples	Using common factors to simplify proper fractions
	KS2 - Year 6	Interpret fractions as division	Interpreting fractions as division
	KS2 - Year 6	Convert simple fractions to decimals	Converting simple fractions to decimals
	KS2 - Year 6	Add and subtract fractions	Adding fractions, related denominators
	KS2 - Year 6		Adding fractions, unrelated denominators
	KS2 - Year 6		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
	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	Existing Course	Topic	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		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	-	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

	Mathematics Mastery Yearly Overview: Year 6												
	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	
Spring	Coord	it 6: linates shape	Unit 7: Fractions		Unit 8: Decimals a measures		Unit 8: Decimals and Percer		it 9: ntages atistics	Prop	t 10: ortion lems	Consol	lidation

Spring

Outcome	Existing Course	Quests	Content
6. Coordinates and shape	KS2 - Year 6	Describe positions, 4 quadrants	Describing positions, 4 quadrants
	KS2 - Year 6	, quadrants	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 describe simple 3-D shapes	Describing and naming prisms and pyramids
	KS2 - Year 6	situpes	Investigating cross- sections of prisms &
			pyramids
	KS2 - Year 6		Connecting 3-D shapes with their nets
	KS2 - Year 6	Name the parts of circles	Naming the parts of circles
7. Fractions	KS2 - Year 6	Multiply proper fractions	Multiplying proper fractions
	KS2 - Year 6	Divide proper fractions by whole	Dividing proper fractions by whole
8. Decimals and	KS2 - Year 6	numbers Convert	numbers Converting between
measures	KSZ - Tedi 0	measurements, decimal notation	common metric units 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 miles and kilometres	Converting between miles and kilometres
	KS2 - Year 6	Area of parallelograms and	Calculating the area of a triangle
	KS2 - Year 6	triangles	Calculating the area of a parallelogram
	KS2 - Year 6	Find the volume of cubes and cuboids	Calculating the volume of cubes and cuboids
9. Percentages and statistics	KS2 - Year 6	Fractions, decimals and percentages	Representing simple 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	Topic	Activity Name
6. Coordinates and shape	England Year 6	G - Properties of Shapes and Position	Coordinate Graphs
	England Year 6		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



For more information about Mathletics, contact our friendly team.

www.mathletics.com/contact

