

	Block 1											
	1	2	3	4	5	6	7	8	9	10	11	12
Y4	Place value (U1)		Addition and subtraction (U1)		Multiplication and division (U1)		Time		Fractions (U1)	Multiplication /division (U2)	Geometry	

	Block 2											
	1	2	3	4	5	6	7	8	9	10	11	12
Y4	Money and decimals (U1)			Place value (U2)	Addition and subtraction (U2)		Multiplication and division (U2)		Fractions (U2)		Statistics	

	Block 3											
	1	2	3	4	5	6	7	8	9	10	11	12
Y4	Place value (U3)		Calculation		Money and decimals (U2)		Length	Mass and volume	Patterns and relationships	School to determine focus		

The yearly overview is a broad guide to suggested coverage over the course of the academic year.

There are 39 school weeks, one week taken for INSET, leaving 38. Two of the 38 are generally taken up with trips, sports days, concerts and so on, leaving 36. The three 'blocks' are each 12 weeks long. Clearly the 12 weeks don't map directly to terms, they are not intended to. Where the table header has been highlighted in blue, this indicates that planning will be provided by *Effective Maths*. Please see the publication dates (on website) for details of when resources will be online.

Remembering content and making connections

In the 2021/22 block overviews that follow, the intention is to provide extremely clear signposting to the quizzes designed to support children in **remembering the key content they have been taught**. And, through the RTP¹ focuses, **integrate knowledge into larger concepts**. Teachers and leaders need to use assessment well, for example to help children embed and use knowledge fluently or to check understanding and inform teaching. But they also need to do this in a way that **does not create unnecessary burdens for staff or children**. The quizzes are ideal for this purpose. (These points - remembering key content, integrating knowledge and not creating burdens - are directly linked to bullet points 3 and 4 in the 'implementation' section of the current Education Inspection Framework.)

The RTP quiz focuses are linked to what the DfE describe as 'the most important knowledge and understanding within each year group'. These criteria very often require children to have command of a wider domain of knowledge than the mathsquiz.net quizzes do. The quizzes on mathsquiz.net **deliberately** take smaller steps. The aim of **both** is to provide teachers and leaders with several ways of supporting children's ongoing progress. For example, through sharing links for mathsquiz.net quizzes with parents/carers (so children continue to practise a core skill such as knowing the $8 \times$ table) and then following up a child's work at home with a quiz session in school to ascertain progress. The RTP quiz focuses are designed to be mini-assessments carried out in school. Taken together, the quizzes and the paper-based end of unit assessments, provide schools with a range of simple strategies to assess the planned/intended curriculum, as opposed to using generic assessments not linked to the curriculum. In particular, the quizzes have the added advantage of being self-marking, easy to repeat and can be shared with parents/carers to support children's learning at home.

Notes

The quizzes in red are being written for 2021/22 and will be online a few weeks before they are first required.

Some RTP focuses are not best assessed by electronic means. For Y4 these are 4G-1 (translations) and parts of 4G-2 (regular/irregular polygons) but perimeter is assessed in the area/perimeter quiz in the length unit.

¹ RTP Ready to Progress

Block 1												
	1	2	3	4	5	6	7	8	9	10	11	12
Y4	Place value (U1)	Addition and subtraction (U1)		Multiplication and division (U1)		Time		Fractions (U1)	Multiplication /division (U2)	Geometry		
	[1] Reading and writing numbers to 4,000 in numerals [2] Reading and writing numbers to 4,000 in words [3] Equivalence of 10 hundreds and 1 thousand ⚡RTP 4NPV-1← [4] Counting forwards in steps of six to 198 [5] Counting forwards in steps of six to 396 [6] Counting forwards and backwards in steps of six [7] Identifying and representing numbers ⚡MQ [8] Comparing and ordering numbers [9] Rounding numbers [a] [10] Rounding numbers [b]	[1] + facts for 100 and associated problem solving ⚡MQ [2] + and - facts for 100 and associated problem solving [3] Using ‘friendly number pairs’ [4] Scaling addition facts by 100 [5] Scaling subtraction facts by 100 ⚡MQ [6] Mental calculation Next/previous ten; near doubles⚡ [7] Mental calculation Left to right addition; number line [8] Estimation [9] Column addition: numbers with up to 4 digits (exchanging ones) [10] Column addition: numbers with up to 4 digits (exchanging, ones, tens and hundreds) [11] Column subtraction: numbers with 3-digits (exchanging ones) [12] Column subtraction: numbers with 3-digits (exchanging ones and tens)	[1] 8 × table (revision) [2] Reasoning about multiplication [3] 6 × table ⚡MQ [4] 9 × table ⚡MQ [5] 7 × table ⚡MQ [6] Dividing by 6 ⚡MQ [7] Dividing by 9 ⚡MQ [8] Dividing by 7 ⚡MQ RTP 4NF-1← 3 RTP quizzes covering Y3 and Y4 × and ÷ facts	[1] Convert time between analogue and digital 12- and 24-hour clocks ⚡MQ [2] Convert between minutes and seconds ⚡MQ [3] Convert between hours and minutes ⚡MQ [4] Changing years to months and weeks to days	[1] Finding fractions of quantities [2] Counting in fractional steps [3] Comparing and ordering fractions ⚡RTP 4F-1← [4] Equivalent fractions [a] [5] Equivalent fractions [b] ⚡MQ [6] Mixed number equivalents [7] Improper fraction equivalents ⚡MQ Quiz linked to [6] - [7]: Mixed numbers and improper fractions	[1] 6 × table (revision) [2] Multiplying multiples of ten by 1-digit numbers ⚡MQ [3] Column method for multiplying 2-digit nos by a 1-digit no (expanded and compact - revision) [4] Multiplying 3 digit numbers (expanded method) [5] Division with remainders ⚡RTP 4NF-2	[1] Angles [2] Ordering and comparing angles [3] Triangles and quadrilaterals [4] Symmetry [5] Symmetry [6] Symmetry ⚡RTP 4G-3 [7] Coordinates [8] Coordinates [9] Coordinates and translations					

☀indicates a quiz linked to the content of the lesson/s.
 ☀MQ means the quiz is accessible via mathsquiz.net

☀RTP means it is a Ready to Progress quiz. Where a RTP quiz also has a backward arrow symbol, ←, this is to indicate that the RTP focus also encompasses key content from earlier lessons: see RTP page on main website for details.

Block 2												
	1	2	3	4	5	6	7	8	9	10	11	12
Y4	Money and decimals (U1)		Place value (U2)		Addition and subtraction (U2)		Multiplication and division (U2)		Fractions (U2)		Statistics	
	[1] Decimal equivalents of tenths to one [2] Identifying representations of tenths [3] Decimal equivalents of tenths greater than one [4] Identifying representations of tenths, including beyond one [5] Decimal equivalents of hundredths [6] Decimal equivalents of halves and quarters [7] Multiplying decimals by ten [8] Dividing 2-digit numbers by ten [9] Dividing 1-digit and 2-digit numbers by ten [10] Multiplying and dividing 1 and 2 digit numbers by 100 ☀RTP 4MD-1← ☀MQ Y4 quiz covers: Decimal equivalents of tenths, hundredths, halves and quarters		[1] What do we know about 3,102? <i>Revision of unit 1</i> [2] Reading and writing numbers to 7,000 [3] Counting in multiples of nine [4] Counting in multiples of seven [5] Reading scales with 2, 4, 5 or 10 intervals ☀RTP 4NPV-4← [6] Negative numbers ☀MQ [7] Solving problems		[1] Mental strategies for addition and subtraction [2] Making the next thousand ☀MQ [3] Making the previous thousand ☀MQ [4] Missing digits in the column method for addition [5] Subtract a 4-digit number from a 4-digit number [6] Missing number problems [7] Solving problems		[1] Understanding multiplication (multiplication facts, commutative and distributive property) ☀MQ [2] Multiplication facts (investigating repeating pattern in ones digits) [3] 7 × table and related facts (line graphs) [4] Multiplying multiples of ten and compact column method (3 digit numbers) [5] Solving problems [6] Strategies for division (partitioning, scaling) ☀MQ [7] Dividing 3-digit numbers (partitioning) [8] Dividing 3-digit numbers (partitioning and short division - exchanging tens) [9] Dividing 3-digit numbers (short division - exchanging hundreds and tens) ☀RTP 4MD-2←		[1] Comparing fractions, equivalent fractions, mixed number/improper equivalents (revision) [2] Adding and subtracting fractions within one (revision) [3] Convert between mixed numbers and improper fractions [4] Convert between improper fractions and mixed numbers ☀RTP 4F-2 [5] Adding like fractions where sum is equal to or greater than one [6] Adding improper and mixed fractions [7] Subtracting fractions from whole numbers [8] Subtraction of improper and mixed fractions ☀MQ Adding and subtracting fractions ☀RTP 4F-3		[1] Sorting diagrams (decision tree diagrams) [2] Interpreting sorting diagrams (tables, Carroll diagrams and Venn diagrams) [3] Venn diagrams with three sets ☀MQ Sorting diagrams [4] Interpreting tables [5] Line graphs (a) [6] Line graphs (b) [7] Line graphs (c) ☀MQ	

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Block 3												
	1	2	3	4	5	6	7	8	9	10	11	12
Y4	Place value (U3)	Calculation			Money and decimals (U2)	Length	Mass and volume	Patterns and relationships	School to determine focus			
	[1] Reading and writing numbers to 10,000 [2] Solving problems involving counting [3] Making numbers in different ways [4] Partitioning in different ways ☀RTP 4NPV-2← [5] Reason about location 4-digit numbers ☀RTP 4NPV-3← [6] Roman numerals to 40 ☀MQ [7] Roman numerals to 80 [8] Roman numerals to 100	[1] Different methods for addition (a) [2] Different methods for addition (b) ☀MQ [3] Different methods for subtraction ☀MQ [4] Addition and subtraction problems ☀MQ [5] Solving multiplication problems involving recall of × facts [6] Using known × facts to derive new facts ☀MQ [7] Scaling multiplication and division facts by 10 and 100 ☀RTP 4NF-3← [8] Multiplying a 3-digit number by a 1-digit number ☀MQ [9] Division (revision) Division facts; using related facts; dividing by partitioning ☀MQ [10] Division problems ☀MQ [11] Short division ☀RTP 4MD-3←			[1] Writing amounts of money in pounds [2] Calculating with money [3] Solving problems about money (coins) [4] Solving problems about money (representing problems with bar models) [5] Adding decimal numbers [6] Adding decimal numbers ☀MQ Solving problems involving money	[1] Decimal notation for lengths in metres [2] Decimal notation for lengths in centimetres ☀MQ [3] Converting from kilometres and metres [4] Perimeter [5] Area ☀MQ	[1] Reading different scales [2] Reading masses using decimal notation ☀MQ [3] Decimal notation for volume [a] [4] Decimal notation for volume [b] [5] Decimal notation for volume and solving problems	[1] Growing patterns [2] Investigating magic squares ☀MQ [3] Addition patterns on the number grid (a) [4] Addition patterns on the number grid (b) [5] Anno's magic seeds [6] Subtraction patterns on the number grid (a) [7] Subtraction patterns on the number grid (b)	If time exists, it is suggested it is used to revisit the Ready to Progress focuses.			

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