

Overview

Year 3 content finishes with 3 weeks to spare, which means that there are plenty of additional lessons available to respond to gaps identified through pre and post unit quizzes. It will also allow time for additional times tables teaching where possible to prepare pupils for the Year 4 Multiplication Tables Check.

In order to regain additional teaching time, those set aside for pre and post unit quizzes could be moved into Maths Meeting sessions.

	Autumn Term		Spring Term		Summer Term	
Maths Topics	<ul style="list-style-type: none"> Number sense and exploring calculation strategies Place value Graphs Addition and subtraction Length and perimeter 		<ul style="list-style-type: none"> Multiplication and division Deriving multiplication and division facts Time Fractions 		<ul style="list-style-type: none"> Angles and shape Measures Securing multiplication and division Exploring calculation strategies 	
Arithmetic Topics Items in blue indicate topics from the previous year for revision.	Addition <ul style="list-style-type: none"> Add a two-digit and one-digit number mentally Add a two-digit and tens mentally Add two two-digit numbers mentally Add three one-digit numbers mentally (above 4 bullet points are up to 100) Add multiples of 10 or 100 to a number (up to 999) Add numbers up to 3 digits using formal method of column addition Subtraction	Multiplication <ul style="list-style-type: none"> Use multiplication facts for the 2, 5 and 10 multiplication tables Multiply a two digit by a one digit using mental methods and progressing to formal written methods (2, 3, 4, 5 and 8) Multiply a whole number by 10 Multiply more than two numbers together (2, 3, 5, 5 and 8) Division <ul style="list-style-type: none"> Use division facts for the 2, 5 and 10 	Fractions <ul style="list-style-type: none"> Find one third of a quantity Find two quarters of a quantity Find three quarters of a quantity Add and subtract fractions with the same denominator within one whole Find fractions of quantities (up to 100) where the denominator is 2, 3, 4, 5, 8 or 10 Addition <ul style="list-style-type: none"> Add multiples of 10 or 100 to a number (up to 999) 	All content	All content	All content

	<ul style="list-style-type: none"> Subtract a two-digit and one-digit number mentally (up to 100) Subtract a two-digit and tens mentally (up to 100) Subtract two two-digit numbers mentally (up to 100) Subtract multiples of 10 or 100 from a number (up to 999) Subtract numbers up to 3 digits using formal method of column subtraction 	<p>multiplication tables</p> <ul style="list-style-type: none"> Use known multiplication facts to create associated division facts Divide one or two digit numbers by 10 	<ul style="list-style-type: none"> Add numbers up to 3 digits using formal method of column addition <p>Subtraction</p> <ul style="list-style-type: none"> Subtract multiples of 10 or 100 from a number (up to 999) Subtract numbers up to 3 digits using formal method of column subtraction 			
<p>Maths Meetings Content (see Maths Mastery document for further detail)</p>	<ul style="list-style-type: none"> Number <ul style="list-style-type: none"> Count forwards in steps of 2,3,5 from 0 Count forwards in tens from any number Count backwards in tens from any number Shape and pattern Time Measures Money 	<ul style="list-style-type: none"> Number Data Shape and measure Time 	<ul style="list-style-type: none"> Number Data Time Shape and patterns Measures Money 			
<p>Times Tables</p>	Count in multiples of 3 to 12x3 in order from 0 fluently.	Recall multiples of 3 up to 12x3 in any order, including missing numbers and related division facts with growing fluency. Count in multiples of 4 to 12x4 in order from 0 with growing	Recall multiples of 3 up to 12x3 in any order, including missing numbers and related division facts fluently. Count in multiples of 4 to 12x4 in order from 0 with fluently.	Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts with growing fluency. Count in multiples of 8 to 12x8 in order from 0 fluently.	Recall multiples of 4 up to 12x4 in any order, including missing numbers and related division facts fluently. Recall multiples of 8 up to 12x8 in any order, including	Recall multiples of 8 up to 12x8 in any order, including missing numbers and related division facts fluently.

		fluency. Introduce (relating to $\times 4$) and begin to count in multiples of 8 from 0 to 12×8 .	Count in multiples of 8 to 12×8 in order from 0 with growing fluency.		missing numbers and related division facts with growing fluency.	
Assessments & CCR deadlines	<ul style="list-style-type: none"> • Baseline PUMA - Summer Year 2 (14th October) • Cumulative arithmetic $\times 2$ (14th October & 16th December) • Formative pre and post unit quizzes 	<ul style="list-style-type: none"> • PUMA – Autumn Year 3 (5th February) • Cumulative arithmetic $\times 2$ (5th February & 26th March) • Formative pre and post unit quizzes 	<ul style="list-style-type: none"> • Cumulative arithmetic $\times 2$ (26th May & 16th July) • PUMA – Summer Year 3 (16th July) • Formative pre and post unit quizzes 			

Autumn Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: Number sense and exploring calculation strategies					
Week 1		Y3 U1 Pre-quiz	Y3 U1 L1 Link and apply known facts using number sense	Y3 U1 L2 Derive new facts from number bonds	Y3 U1 L3 Deepen understanding of the number system
Week 2	Y3 U1 L4 Recognise the value of each digit in a 2-digit number	Y3 U1 L5 Use and = when comparing numbers	Y3 U1 L7 Find number bonds for numbers up to 20	Plan consolidation lesson from Y2 U15: exploring calculation strategies. See amended scheme of work for more detail.	
Week 3	Plan consolidation lesson from Y2 U15: exploring calculation strategies. See amended scheme of work for more detail.		Y2 U15 L5 & L6 Add two 2-digit numbers using the column method (without regrouping then with regrouping)	Y2 U15 L7 & L8 Subtract 2-digit numbers using the column method (without regrouping then with regrouping)	Y3 U1 L8 Add and subtract 2-digit numbers without regrouping
Week 4	Y3 U1 L9 Add and subtract 2-digit numbers with regrouping	Y3 U1 L11 Use 'round and adjust' to add and subtract near multiples of 10	Y3 U1 L12 Use near doubles as an efficient mental addition strategy	Y3 U1 L13 Use an 'adding on' strategy to find the difference	L3 U1 L14 Represent addition and subtraction problems using bar models
Unit 2: Place value					
Week 5	Y3 U1 Post-quiz Y3 U2 Pre-quiz	Y2 U12 L1 Recognise the place value of each digit in a 3-digit number	Y3 U2 L1 Identify and represent 3-digit numbers	Y3 U2 L2 Partition numbers in different ways	Y3 U2 L3 Order and compare 3-digit numbers

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 6	Y3 U2 L4 Add and subtract ten and one hundred	Y3 U2 L5 Round 2-digit and 3- digit numbers to the nearest multiple of ten	Y3 U2 L6 Find all possible numbers that could have been rounded to a multiple of ten	Y3 U2 L7 Round 3-digit numbers to the nearest multiple of one hundred	Y3 U2 L8 Apply place value knowledge to problem solving
Unit 2: Place value			Unit 3: Graphs		
Week 7	Y3 U2 L9 Find all solutions to a problem	Y3 U2 Post-quiz Y3 U3 Pre-quiz	Y3 U3 L1 Read and interpret pictograms	<i>Left for assessment purposes.</i>	
Half-term					
Week 8	Y3 U3 L2 Present data from a table in a pictogram with symbols representing more than one.	Y3 U3 L3 Read and interpret scaled bar charts	Y3 U3 L4 Collect data using a tally and present data in tables and scaled bar charts	Y3 U3 L5 Interpret and present data in pictograms and scaled bar charts	Y3 U3 Post-quiz Y3 U4 Pre-quiz
Unit 4: Addition and subtraction					
Week 9	Y3 U4 L1 Apply knowledge of number bonds when adding and subtracting mentally	Y3 U4 L2 Add a 3-digit number and a multiple of 10	Y3 U4 L3 Subtract a multiple of ten from a 3-digit number	Y3 U4 L4 Add or subtract a multiple of 100	Y3 U4 L5 Add or subtract two 3-digit numbers
Week 10	Y3 U4 L7 Use rounding to estimate the answer for a calculation	Y3 U4 L8 Add two 3-digit numbers using column addition	Y3 U4 L9 Add two 3-digit numbers using column addition	Y3 U4 L10 Subtract 3-digit numbers using column subtraction	Y3 U4 L11 Subtract a 3-digit number using column subtraction

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 11	Y3 U4 L12 Subtract 3-digit numbers using column subtraction	Y3 U4 L13 Solve word problems using addition and subtraction skills	Y3 U4 L14 Interpret and represent addition and subtraction problems with bar models	Y3 U4 Post-quiz Y3 U5 Pre-quiz	Plan a practical measure lesson to introduce pupils to the topic.
Unit 5: Length and perimeter					
Week 12	Y3 U5 L1 Measure lengths to the nearest centimetre or nearest millimetre	Y3 U5 L2 Measure length and draw lines of a given length in mixed units (cm and mm)	Y3 U5 L3 Make an appropriate estimate of length by comparing	Y3 U5 L5 Calculate the perimeters of 2-D shapes in centimetres or millimetres	Y3 U5 L6 Calculate the perimeters of 2-D shapes in centimetres and millimetres
Week 13	Y3 U5 L7 Measure and compare lengths in mixed units (metres and centimetres)	Y3 U5 L8 Calculate the perimeters of shapes in metres and centimetres	Y3 U5 L9 Apply problem solving strategies in the context of length	Y3 U5 Post-quiz Y3 U6 Pre-quiz	Left for flexibility in planning and to account for assessments.
Week 14	Left for flexibility in planning and to account for assessments.				

Spring Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 6: Multiplication and division					
Week 1	Inset day	Plan a responsive lesson to gaps identified in pre- unit quiz.	Y2 U16 L1 Recall the multiplication table of three using skip counting	Y2 U16 L2 Recall the multiplication table of four using skip counting	Y2 U16 L3 Describe and interpret arrays for the multiplication tables of three and four
Week 2	Y3 U6 L1 Understand that multiplication can be completed in any order	Plan a bar model consolidation lesson from Y2 U16 before moving on to Y3 U6 L2.	Y3 U6 L2 Understand the inverse relationship between multiplication and division	Y3 U6 L3 Use the inverse relationship to solve missing number problems	Y3 U6 L4 Recall and use multiplication and division facts for two, three, four, five and ten
Week 3	Y3 U6 L5 Solve division problems using knowledge of multiples and factors	Y3 U6 L6 Solve correspondence problems	Y3 U6 L7 Recall and use multiplication facts for three and four to find multiplication facts for six and eight.	Y3 U6 L8 Deriving 'ten times greater' facts for known multiplication tables	Y3 U6 L9 Match appropriate bar models to multiplication and division problems
Unit 7: Deriving multiplication and division facts					
Week 4	Y3 U6 Post-quiz Y3 U7 Pre-quiz	Y3 U7 L1 Understand that different multiplication strategies don't affect the product	Y3 U7 L2 Multiply numbers by 10 and 100 using place value charts	Y3 U7 L3 Know that adjacent place value columns are ten times greater in value	Y3 U7 L4 Divide multiples of 10 and 100 by ten using place value
Week 5	Y3 U7 L5 Multiply and divide by 10 and 100 using place value	Y3 U7 L6 Understand that using grouping or sharing to divide gives the same result as place value division.	Y3 U7 L8 Deriving new facts from multiplication facts	Y3 U7 L9 Multiply a 2-digit number by 3, 4 or 5 (no regrouping)	Y3 U7 L10 Multiply a 2-digit number by 2, 3, 4 or 5 (with regrouping)

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 6	Y3 U7 L11 Divide a number by 2, 3, 4 or 5 without regrouping	Y3 L7 L13 Represent and solve multiplication and division word problems using bar models	Y3 L7 L14 Identify calculations and solve problems by using bar models to represent the relationship between known and unknown values	Y3 U7 Post-quiz Y3 U8 Pre-quiz	Plan a responsive lesson to gaps identified in pre- unit quiz.
Half-term					
Unit 8: Time					
Week 7	Y3 U8 L1 Understanding that clocks are measuring devices with more than one scale.	Y3 U8 L2 Reading analogue times to the nearest minute	Y3 U8 L3 Understand and correctly use a.m. and p.m. to read, record and order times	Y3 U8 L4 Understanding the features of digital clocks and telling 'minutes past' times	Y3 U8 L5 Reading and ordering times in words, analogue or 12-hr digital formats
Week 8	Y3 U8 L6 Understanding the units of measured time	Y3 U8 L7 Measuring intervals in seconds and in minutes and seconds	Y3 U8 L8 Calculating and comparing intervals given start and finish times	Y3 U8 L9 Apply knowledge and understanding of time to solve real-world problems	Y3 U8 Post-quiz Y3 U9 Pre-quiz
Unit 9: Fractions					
Week 9	Y3 U9 L1 Describe part-whole relationships	Y3 U9 L2 Recognise parts that are equal and parts that are not equal	Y3 U9 L3 Recognise, identify and describe unit fractions	Y3 U9 L4 Find a fraction of a given quantity	Y3 U9 L5 Recognise and describe unit and non-unit fractions
Week 10	Y3 U9 L6 Identify, describe and write non-unit fractions of shapes	Y3 U9 L7 Find a non-unit fraction of a given quantity	Y3 U9 L8 Compare fractions with the same denominator	Y3 U9 L9 Compare unit fractions	Y3 U9 L11 Recognise equivalent fractions

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 11	Y3 U9 L12 Recognise equivalent fractions	Y3 U9 L13 Recognise equivalent fractions	Y3 U9 L14 Add and subtraction fractions with the same denominator within one whole	Y3 U9 Post-quiz Y3 U10 Pre-quiz	Left for flexibility in planning and accounting for assessments.
Week 12	Left for flexibility in planning and accounting for assessments.			School closed	School closed

Summer Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 10: Angles and shapes					
Week 1	Plan a responsive lesson to gaps identified in pre- unit quiz.	Y3 U10 L1 Know that an angle is a property of shape or a description of a turn	Y3 U10 L2 Identify angles in shapes	Y3 U10 L3 Recognise that one quarter turn makes a right angle, one half turn makes two right angles, three quarter turns make 3 right angles and one complete turn makes four right angles	Y3 U10 L4 Identify acute and obtuse angles
Week 2	Y3 U10 L6 Identify pairs of lines that are perpendicular	Y3 U10 L7 Draw a line that is perpendicular to a given line	Y3 U10 L8 Identify pairs of lines that are parallel	Y3 U10 L10 Understand that four straight sides and four right angles are properties of all rectangles	Y3 U10 L11 Make, draw and describe 2D shapes using properties of shape
Week 3	Bank holiday	Y3 U10 L12 Draw 2D shapes from given properties	Y3 U10 L13 Make and describe 3D shapes	Y3 U10 L14 Recognise shapes with reflective symmetry	Y3 U10 Post-quiz Y3 U11 Pre-quiz

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Unit 11: Measures					
Week 4	Y3 U11 L1 Read measurements from weighing scales with different intervals	Y3 U11 L2 Use mixed units to weigh and compare mass	Y3 U11 L3 Estimate the mass of an object	Y3 U11 L4 Read scales when measuring volume	Y3 U11 L5 Use measuring containers to measure and compare capacity in mixed units
Week 5	Y3 U11 L6 Estimate the capacity of a container	Plan a consolidation lesson on the first half of the unit's learning.	Y3 U11 L9 Use bar modelling to represent addition and subtraction word problems	Y3 U11 L10 Use bar modelling to represent measurement problems and solve them using addition or subtraction	Y3 U11 L11 Use bar modelling to represent multiplication and division word problems
Week 6	Y3 U11 L12 Use bar modelling to represent measurement problems and solve them using multiplication or division	Y3 U11 L14 Apply knowledge and understanding of measures to solve real-world problems	Y3 U11 Post-quiz Y3 U12 Pre-quiz	<i>Left for flexibility in planning and accounting for assessments.</i>	
Half-term					
Unit 12: Securing multiplication and division					
Week 7	Plan a responsive lesson to gaps identified in pre- unit quiz.	Y3 U12 L1 Understand and link different representations for multiplication and division	Y3 U12 L2 Represent and solve multiplication and division problems	Y3 U12 L3 Represent and solve multi-step word problems	Y3 U12 L4 Multiply a 2-digit number by 6 or 8 (with regrouping)
Unit 13: Exploring calculation strategies					
Week 8	Y3 U12 Post-quiz Y3 U13 Pre-quiz	Plan a responsive lesson to gaps identified in pre- unit quiz.	Y3 U13 L1 Apply a range of strategies to mentally calculate addition	Y3 U13 L2 Apply a range of strategies to mentally calculate subtraction	Y3 U13 L3 Apply addition and subtraction within a context

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 9	Y3 U13 L4 Using commutativity, associativity and known facts to multiply efficiently	Y3 U13 L5 Use halving or doubling to calculate efficiently	Y3 U13 L7 Identify the value of each digit in a 4-digit number	Y3 U13 L8 Compare and order 4-digit numbers	Y3 U13 L9 Add and subtract one thousand
Week 10	Y3 U13 L10 Round 4-digit numbers to the nearest multiple of one thousand	Y3 U13 Post-quiz			
Week 11					
Week 12					
Week 13					