

Overview

In Year 4, there is some room for flexibility in planning. As pupils will be taking the Multiplication Tables Check in June, this additional time has potential to be used for weekly lessons for discrete times tables teaching. These lessons have not been put into the plan as each school will likely plan these differently. In order to regain additional lessons, 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"> Reasoning with 4-digit numbers Addition and subtraction Multiplication and division Interpreting and presenting data Securing multiplication and division facts 		<ul style="list-style-type: none"> Fractions Time Decimals Area and perimeter 		<ul style="list-style-type: none"> Solving measure and money problems 2-D shape and symmetry Position and direction Reasoning with patterns and sequences 3-D shape 	
Arithmetic Topics Items in blue indicate topics from the previous year for revision.	Addition <ul style="list-style-type: none"> Add multiples of 10 or 100 to a number (up to 999) Add numbers up to 3 digits using formal method of column addition Add multiples of 10, 100 and 1,000 to a number (up to 9,999) Add numbers up to 4 digits using formal method of column addition Add with decimals (up to tenths and hundredths) Subtraction <ul style="list-style-type: none"> Subtract multiples of 10 or 100 from 	Multiplication <ul style="list-style-type: none"> 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) Multiply 2 and 3 digit numbers by a 1-digit number using a formal written method Multiply a whole number by 100 	Fractions <ul style="list-style-type: none"> 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 Add and Subtract fractions where the answer may be an improper fraction Find fractions of quantities using known multiplication facts 	All content	All content	All content

	<p>a number (up to 999)</p> <ul style="list-style-type: none"> Subtract numbers up to 3 digits using formal method of column subtraction Subtract multiples of 10, 100 and 1,000 from a number (up to 9,999) Subtract numbers up to 4 digits using formal method of column subtraction Subtract with decimals (up to tenths and hundredths) 	<ul style="list-style-type: none"> Multiply more than two numbers together <p>Division</p> <ul style="list-style-type: none"> Use known multiplication facts to create associated division facts Divide one or two digit numbers by 10 Use known multiplication facts to create associated division facts Divide one or two digit numbers by 100 Divide multiples of 10, 100 and 1,000 by a single digit number using associated division facts 				
<p>Maths Meetings Content (see Maths Mastery document for further detail)</p>	<ul style="list-style-type: none"> Number Shape and pattern Time Money Measures Problem solving 		<ul style="list-style-type: none"> Number Geometry and shape 		<ul style="list-style-type: none"> Number Geometry, position and direction Measures Money 	

Times Tables	<ul style="list-style-type: none"> Recall multiples of 3,4 and 8 up to 12x in any order, including missing numbers and related division facts fluently. Fluently count in 6's in order up to 12x6, using multiples of 3 to support. 	<ul style="list-style-type: none"> Recall multiples of 6 in any order, including missing numbers and related division facts with growing fluency. Fluently count in 7's in order up to 12x7. 	<ul style="list-style-type: none"> Recall multiples of 6 in any order, including missing numbers and related division facts fluently. Recall multiples of 7 in any order, including missing numbers and related division facts with growing fluency. 	<ul style="list-style-type: none"> Recall multiples of 7 in any order, including missing numbers and related division facts fluently. Fluently count in 9's in order up to 12x9. Fluently count in 11's in order up to 12x11. 	<ul style="list-style-type: none"> Recall multiples of 9 in any order, including missing numbers and related division facts fluently. Recall multiples of 11 in any order, including missing numbers and related division facts fluently. Recall multiples of 12 in any order, including missing numbers and related division facts with growing fluency (using 10x and adjusting by adding 2 more groups). 	<ul style="list-style-type: none"> Revision of times tables 1-12x
Assessments & CCR deadlines	<ul style="list-style-type: none"> Baseline PUMA - Summer Year 3 (14th October) Cumulative arithmetic x2 (14th October & 16th December) Formative pre and post unit quizzes 		<ul style="list-style-type: none"> PUMA – Autumn Year 4 (5th February) Cumulative arithmetic x2 (5th February & 26th March) Formative pre and post unit quizzes 		<ul style="list-style-type: none"> Multiplication tables check (7th -25th June) Cumulative arithmetic x2 (26th May & 16th July) PUMA – Summer Year 4 (16th July) Formative pre and post unit quizzes 	

Autumn Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: Reasoning with 4-digit numbers					
Week 1	Y4 U1 Pre-quiz	Y3 U13 L7 & 8 Identify the value of each digit in a 4-digit number. Compare and order 4-digit numbers.	Y3 U13 L9 & 10 Add and subtract one thousand. Round 4-digit numbers to the nearest multiple of one thousand.	Y4 U1 L1 Recognise the place value of each digit in a 4-digit number	Y4 U1 L2 Order and compare numbers beyond 1000
Week 2	Y4 U1 L3 Order and compare numbers beyond 1000	Y4 U1 L4 Find 10, 100 or 1000 more or less than a given number	Y4 U1 L6 Round any number to the nearest 10	Y4 U1 L7 Round numbers of up to four digits to the nearest 100	Y4 U1 L8 Round any number to the nearest 1000
Unit 1: Reasoning with 4-digit numbers			Unit 2: Addition and subtraction		
Week 3	Y4 U1 L9 Use knowledge of place value and rounding to reason with 4-digit numbers.	Y4 U1 Post-quiz Y4 U2 Pre-quiz	Y4 U2 L1 Derive addition and subtraction facts from known facts	Y4 U2 L2 Derive addition and subtraction facts from known facts	Y4 U2 L3 Choose an appropriate addition strategy
Week 4	Y4 U2 L4 Choose an appropriate subtraction strategy	Y4 U2 L5 Plan consolidation lesson based on L1 -4	Y4 U2 L6 Use column addition for 4-digit integers (regrouping in one column)	Y4 U2 L7 Use column addition for 4-digit integers (regrouping in multiple columns)	Y4 U2 L8 Use column subtraction for 4-digit integers (regrouping in one column)
Week 5	Y4 U2 L9 Use column subtraction for 4-digit integers (regrouping in multiple columns)	Y4 U2 L10 Subtract a 4-digit integer from a multiple of 1000.	Y3 U11 L9 Use bar modelling to represent addition and subtraction word problems	Y4 U2 L11 Represent addition and subtraction problems using bar models	Y4 U2 L12 Represent addition and subtraction problems using bar models

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 2: Addition and subtraction			Unit 3: Multiplication and division		
Week 6	Y4 U2 L13 Use bar models to represent two-step addition and subtraction problems	Y4 U2 L14 Plan consolidation lesson based on L6-13	Y4 U2 Post-quiz Y4 U3 Pre-quiz	Y3 U12 L1 Understand and link different representations for multiplication and division	Y3 U12 L2 Represent and solve multiplication and division problems
Week 7	Y3 U12 L3 Represent and solve multi-step word problems	Y3 U11 L11 Use bar modelling to represent multiplication and division word problems	Y3 U11 L12 Use bar modelling to represent measurement problems and solve them using multiplication or division	Left for flexibility in planning and to account for assessments.	
Half-term					
Unit 3: Multiplication and division					
Week 8	Y4 U3 L1 Use place value, known and derived facts to multiply mentally	Y4 U3 L2 Use place value, known and derived facts to divide mentally	Y4 U3 L3 Calculate multiplication facts using the distributive law	Y4 U3 L4 Use the distributive law to multiply a 2-digit number by a 1-digit number	Y4 U3 L5 Use the distributive law to multiply a 2-digit number by a 1-digit number
Week 9	Y4 U3 L6 Plan a consolidation lesson based on L1–5.	Y4 U3 L7 Explain the procedure of short multiplication	Y4 U3 L8 Use short multiplication to multiply a 3-digit number by a 1-digit number (regrouping in any column)	Y4 U3 L9 Use short multiplication to multiply any 3-digit number by a 1-digit number	Y4 U3 L10 Use mental strategies to divide
Week 10	Y4 U3 L11 Explore division using knowledge of multiples	Y4 U3 L12 Use short division to divide a 2- or 3-digit number by a 1-digit number	Y4 U3 L13 Use short division to divide a 3-digit number by a 1-digit number (multiple regrouping)	Y4 U3 L14 Problem solve using the four operations	Y4 U3 Post-quiz Y4 U4 Pre-quiz

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Unit 4: Discrete and continuous data					
Week 11	Y4 U4 L1 Read, interpret and compare pictograms	Y4 U4 L2 Construct pictograms	Y4 U4 L3 Read, interpret and compare bar charts	Y4 U4 L4 Construct a bar chart	Y4 U4 L6 Read and interpret time graphs
Week 12	Y4 U4 L7 Construct a time graph	Y4 U4 L8 Interpret time graphs	Y4 U4 L9 Construct a time graph	Y4 U4 Post-quiz Y4 U5 Pre-quiz	Plan lesson based on gaps identified in U5 pre-test.
Unit 5: Securing multiplication and division facts					
Week 13	Y4 U5 L1 Identify patterns in and between multiplication tables	Y4 U5 L2 Investigate using knowledge of multiplication tables	Y4 U5 L3 Explore patterns in the nine times table	Y4 U5 L4 Represent the seven times table	Y4 U5 Post-quiz Y4 U6 Pre-quiz
Week 14	Left for flexibility in planning and to account for assessments.				

Spring Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 6: Fractions					
Week 1	Y4 U6 L1 Recognise fractions as different representations	Y4 U6 L2 Identify and find fractions of quantities	Y4 U6 L3 Recognise equivalent fractions	Y4 U6 L4 Recognise equivalent fractions	Y4 U6 L5 Calculate non-unit fractions of quantities
Week 2	Y4 U6 L6 Find equivalent fractions using multiplication and division	Y4 U6 L7 Solve problems involving fractions and division	Y4 U6 L8 Compare and order fractions	Y4 U6 L9 Plan consolidation lesson based on L1 - 8	Y4 U6 L10 Recognise and write mixed numbers
Week 3	Y4 U6 L11 Recognise and write improper fractions	Y4 U6 L12 Convert mixed numbers to improper fractions	Y4 U6 L13 Add fractions which are equal to less than one	Y4 U6 L14 Subtract fractions less than one whole	Y4 U6 L15 Add fractions to equal an answer greater than one
Week 4	Y4 U6 L16 Subtract fractions including fractions greater than one	Y4 U6 L17 Plan consolidation lesson to practise skills from L10-16	Y4 U6 L18 Calculate unit fractions of quantities	Y4 U6 L19 Calculate non-unit fractions of quantities	Y4 U6 L20 Compare non-unit fractions of quantities
Unit 7: Time					
Week 5	Y4 U6 Post-quiz Y4 U7 Pre-quiz	Y4 U7 L1 Read, write and convert time between analogue and digital 12-hour clocks	Y4 U7 L2 Read, write and convert time between analogue and digital 24-hour clocks	Y4 U7 L3 Convert time between hours and minutes, minutes and seconds	Y4 U7 L4 Convert time between years and months, and weeks and days

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 6	Y4 U7 L5 Solve problems involving time	Plan lesson based on gaps identified in U7 pre-quiz	Left for flexibility in planning and to account for assessments.		
Half-term					
Unit 8: Decimals					
Week 7	Y4 U7 Post-quiz Y4 U8 Pre-quiz	Y4 U8 L1 Recognise and write decimal equivalents of any number of tenths	Y4 U8 L2 Recognise quantities as decimal tenths	Y4 U8 L3 Compare numbers with one decimal place	Y4 U8 L4 Round decimals with one decimal place to the nearest whole number
Week 8	Y4 U8 L5 Round to the nearest whole number in order to investigate a problem	Y4 U8 L6 Find number bonds for numbers with one decimal place	Y4 U8 L7 Mentally add and subtract numbers with one decimal place	Y4 U8 L8 Recognise and write decimal equivalents of any number of hundredths	Y4 U8 L9 Recognise and write decimal equivalents of any number of hundredths
Week 9	Y4 U8 L10 Recognise and write decimal equivalents to one quarter, one half and three quarters	Y4 U8 L11 Order numbers up to two decimal places	Y4 U8 L12 Divide and multiply by 10, including decimals	Y4 U8 L13 Divide and multiply by 10, including decimals	Y4 U8 L14 Divide and multiply by 100, including decimals
Unit 8: Decimals			Unit 9: Area and perimeter		
Week 10	Y4 U8 L15 Find the effect of dividing or multiplying by 10, including decimals with one decimal place	Y4 U8 Post-quiz Y4 U9 Pre-quiz	Y4 U9 L1 Measure and calculate the perimeter of rectangles in centimetres and millimetres	Y4 U9 L2 Draw accurately 2-D shapes with differing perimeters in centimetres	Y4 U9 L3 Calculate the perimeter of rectangles in metres and centimetres.

	Monday	Tuesday	Wednesday	Thursday	Friday
Week 11	Y4 U9 L4 Measure and calculate the perimeter of composite rectilinear shapes in centimetres and millimetres.	Y4 U9 L5 Measure and calculate the perimeter of composite rectilinear shapes in metres and centimetres	Y4 U9 L6 Understand that area is a measure of surface and that it is measured in square units	Y4 U9 L7 Find the area of rectangles	Y4 U9 L8 Calculate and compare the area of rectangles (including squares), using square centimetres (cm ²)
Week 12	Y4 U9 L9 Calculate and compare the area of rectangles (including squares) using square metres	Y4 U9 L10 Investigate the relationship between area and perimeter	Y4 U9 Post-quiz Y4 U10 Pre-quiz	School closed	School closed

Summer Term

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 10: Solving measure and money problems					
Week 1	Plan practical lessons to give pupils an opportunity to use measuring equipment accurately. Y3 U11 can be used to plan these lessons.		Y4 U10 L1 Choose and use appropriate units of measure for capacity, length and mass	Y4 U10 L2 Convert between millimetres and centimetres	Y4 U10 L3 Convert between centimetres and metres
Week 2	Y4 U10 L4 Convert between units of measurement	Y4 U10 L5 Plan consolidation lesson based on L1-4	Y4 U10 L6 Develop strategies to plan and solve problems	Y4 U10 L7 Develop strategies to plan and solve problems.	Y4 U10 L8 Develop strategies to plan and solve problems
Week 3	Bank holiday	Y4 U10 L9 Develop strategies to plan and solve problems	Y4 U10 L11 Develop strategies to plan and solve problems	Y4 U10 L12 Develop strategies to understand, plan and solve problems	Y4 U10 L13 Develop strategies to plan and solve problems

	Monday	Tuesday	Wednesday	Thursday	Friday
Unit 10: Solving measure and money problems			Unit 11: 2-D shape and symmetry		
Week 4	Y4 U10 L14 Develop strategies to plan and solve problems	Y4 U10 Post-quiz Y4 U11 Pre-quiz	Plan consolidation lessons based on Y3 U10 L1 & 2. Take time exploring and clarifying definitions through many different examples.	Y4 U11 L1 Compare and order angles	Y3 U10 L3 Recognise that one quarter turn = a right angle, one half turn = two right angles, three quarter turns = 3 right angles and one complete turn = four right angles
Week 5	Y4 U11 L2 Identify right angles	Y4 U11 L3 Identify acute and obtuse angles	Y4 U11 L4 Investigate angles within shapes	Y3 U10 L6 Identify pairs of lines that are perpendicular	Y3 U10 L7 Draw a line that is perpendicular to a given line
Week 6	Y3 U10 L8 Identify pairs of lines that are parallel	Y4 U11 L6 Compare and classify 2-D shapes	Y3 U10 L10 Understand that four straight sides and four right angles are properties of all rectangles	Left for flexibility in planning and to account for assessments.	
Half-term					
Week 7	Y4 U11 L7 Compare and classify quadrilaterals	Y4 U11 L8 Compare and classify right angled and equilateral triangles	Y4 U11 L9 Compare and classify isosceles and scalene triangles	Y3 U10 L14 Recognise shapes with reflective symmetry	Y4 U11 L11 Identify lines of symmetry in 2-D shapes
Week 8	Y4 U11 L12 Complete a simple symmetric figure	Y4 U11 L13 Investigate a problem using symmetry	Plan consolidation lesson based on Y4 U11 lessons taught before half term (L1-6).	Y4 U11 Post-quiz Y4 U12 Pre-quiz	Plan lesson based on gaps identified in U12 pre-quiz

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Unit 12: Position and direction					
Week 9	Y4 U12 L1 Describe positions on a 2-D grid as coordinates	Y4 U12 L2 Investigate a problem, describing positions on a 2-D grid as coordinates	Y4 U12 L3 Plot specified points and draw sides to complete a given triangle	Y4 U12 L4 Describe movements between positions as translations of a given unit to the left/ right or up/down	Y4 U12 L5 Describe movements between positions as translations of a given unit to the left/ right and up/down
Unit 13: Reasoning with patterns and sequences					
Week 10	Y4 U12 Post-quiz Y4 U13 Pre-quiz	Y4 U13 L1 Investigate the place value of different number systems	Y4 U13 L2 Investigate the Roman Numerals up to one hundred	Y4 U13 L3 Identify and complete number sequences	Y4 U13 L4 Investigate number patterns
Week 11	Y4 U13 L6 Investigate a pattern	Y4 U13 L7 Develop strategies to plan and solve problems	Y4 U13 L8 Develop strategies to plan and solve problems	Y4 U13 L9 Develop strategies to plan and solve problems	Y4 U13 Post-quiz Y4 U14 Pre-quiz
Unit 14: 3-D shape					
Week 12	Y4 U14 L1 Apply understanding of the properties of 3-D shape	Y4 U14 L2 Apply understanding of the properties of 3-D shape	Y4 U14 L3 Solve problems based on 2-D representations of 3-D shapes	Y4 U14 L4 Problem-solve using 2-D representations of 3-D shapes	Y4 U14 Post-quiz
Week 13	Plan lesson based on gaps identified in U14 pre-test.	<i>Left for flexibility in planning and to account for assessments.</i>			