Year 3/4 yearly overview

Note: Shaded colours refer to the strand colours used in the textbooks.

Year 3	Year 4	Number of lessons
Autumn term		**56**
Unit 1: Place value within 1,000 • recognise the place value of each digit in a three-digit number (hundreds, tens, ones) • read and write numbers up to 1,000 in numerals and in words • identify, represent and estimate numbers using different representations • count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • solve number problems and practical problems involving these ideas	**Unit 1: Place value – 4-digit numbers (1)** • recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) • identify, represent and estimate numbers using different representations • round any number to the nearest 10,100 or 1,000 • count in multiples of 6, 7, 9, 25 and 1,000 • find 1,000 more or less than a given number • order and compare numbers beyond 1,000	**12**

Unit 6: Money • add and subtract amounts of money to give change, using both £ and p in practical contexts	**Unit 2: Place value – 4-digit numbers (2)** • find 1,000 more or less than a given number • order and compare numbers beyond 1000 • identify, represent and estimate numbers using different representations • round any number to the nearest 10, 100 or 1,000 • count in multiples of 6, 7, 9, 25 and 1,000 • solve number and practical problems that involve all of the above and with increasingly large positive numbers • count in multiples of 6, 7, 9, 25 and 1,000 • interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero • count backwards through zero to include negative numbers	**9**

Unit 2: Addition and subtraction (1) • add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • add and subtract numbers with up to three digits formal written methods of columnar addition and subtraction • add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds	**Unit 3: Addition and subtraction** • add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction, where appropriate • solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why • round any number to the nearest 10, 100 or 1,000 • estimate and use inverse operations to check answers to a calculation	
Unit 3: Addition and subtraction (2) • add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds • solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • estimate the answer to a calculation and use inverse operations to check answers • add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction	**Unit 12: Money** • estimate, compare and calculate different measures, including money in pounds and pence • solve simple measure and money problems involving fractions and decimals to two decimal places	**24**

• add and subtract numbers mentally, including a three-digit number and ones, a three-digit number and tens, a three-digit number and hundreds		

Unit 8: Length • measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml) • measure the perimeter of simple 2D shapes	**Unit 4: Perimeter** • convert between different units of measure [for example, kilometre to metre, hour to minute] • measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	**11**
	Unit 7: Area • find the area of rectilinear shapes by counting squares • estimate, compare and calculate different measures, including money in pounds and pence	

Year 3	Year 4	Number of lessons
Spring term		**61**
Unit 4: Multiplication and division (1) • write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objects	**Unit 5: Multiplication and division (1)** • use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1, multiplying together three numbers • recall multiplication and division facts for multiplication tables up to 12 × 12 • solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days.	**15**

Unit 5: Multiplication and division (2) • write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which *n* objects are connected to *m* objects • solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign	**Unit 6: Multiplication and division (2)** • solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign • multiply two-digit and three-digit numbers by a one-digit number using a formal written layout • recognise and use factor pairs and commutativity in mental calculations • multiply two-digit and three-digit numbers by a one-digit number using a formal written layout • use place value, known and derived facts to multiply and divide mentally, including multiplying by 0 and 1, dividing by 1, multiplying together three numbers • solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one-digit, integer scaling problems and harder correspondence problems such as *n* objects are connected to *m* objects	**15**

Unit 9: Fractions (1) • recognise and use fractions as numbers; unit fractions and non-unit fractions with small denominators • count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • compare and order unit fractions, and fractions with the same denominators • solve problems that involve all of the above	**Unit 8: Fractions (1)** • count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten • recognise and show, using diagrams, families of common equivalent fractions • solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number • add and subtract fractions with the same denominator	**11**

Unit 10: Fractions (2) • recognise and show, using diagrams, equivalent fractions with small denominators • recognise and use fractions as numbers; unit fractions and non-unit fractions with small denominators • add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] • compare and order unit fractions and fractions with the same denominator • solve problems that involve all of the above	**Unit 9: Fractions (2)** • add and subtract fractions with the same denominator • solve problems involving increasingly harder fractions to calculate quantities, and use fractions to divide quantities, including non-unit fractions where the answer is a whole number	**9**

Unit 13: Mass • measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml)	**Unit 10: Decimals (1)** • recognise and write decimal equivalents of any number of tenths or hundredths • solve simple measure and money problems involving fractions and decimals to two decimal places • find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths • recognise and write decimal equivalents of any number of tenths or hundredths • count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	**11**

Year 3	Year 4	Number of lessons
Summer term		**34**
Unit 14: Capacity • measure, compare, add and subtract lengths (m/cm/mm), mass (kg/g), volume/capacity (l/ml)	**Unit 11: Decimals (2)** • recognise and write decimal equivalents of any number of tenths or hundredths • add and subtract fractions with the same denominator • compare numbers with the same number of decimal places up to two decimal places • find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths • round decimals with one decimal place to the nearest whole number • recognise and write decimal equivalents to 1/4, 1/2, 3/4 • solve simple measure and money problems involving fractions and decimals to two decimal places	**7**

Unit 11: Time • know the number of seconds in a minute and the number of days in each month, year and leap year • estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight • tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • compare durations of events [for example to calculate the time taken for particular events or tasks]	**Unit 13: Time** • Convert between different units of measure [for example, kilometre to metre, hour to minute] **Unit 16: Position and direction** • describe positions on a 2D grid as coordinates in the first quadrant • plot specified points and draw sides to complete a given polygon • describe movements between positions as translations of a given unit to the left/right and up/down	**11**
Unit 7: Statistics • interpret and present data using bar charts, pictograms and tables • solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables	**Unit 14: Statistics** • interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs • solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	**5**

Unit 12: Angles and properties of shape • recognise angles as a property of shape or a description of a turn • identify right angles, recognise that two right angles make a half-turn, three make three-quarters of a turn and four make a complete turn; identify whether angles are greater than or less than a right angle • draw 2D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them • identify horizontal and vertical lines and pairs of perpendicular and parallel lines	**Unit 15: Angles and 2D shape** • identify acute and obtuse angles and compare and order angles up to two right angles by size • compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes • identify lines of symmetry in 2D shapes presented in different orientations • complete a simple symmetric figure with respect to a specific line of symmetry	**11**