

4	Number System	Addition and Subtraction	Multiplication and Division	Fractions and Decimals
End of year expectations				
	<ul style="list-style-type: none"> I can count in multiples of 6, 7, 9, 25, 100 and 1000 I can find 1000 more or less than a given number I can count backwards through 0 using negative numbers I can recognise the place value of each digit in a four-digit number (1000's, 100's, 10's and 1's) I can compare and order numbers beyond 1000 I can identify, represent and estimate numbers using different representations * I can round any number to the nearest 10, 100 and 1000. I can read Roman numerals to 100 (I to C) and I understand how numbers developed to include 0. I can solve number and practical problems that involve all of the above and with increasingly large positive numbers I know the effect of dividing one or two digit number by 10 and 100 and identify the value of the digits in the answer as one's tenths and hundredths I can round decimals with one decimal place to the nearest whole number I can compare numbers with the same number of decimal places up to 2 decimal places 	<ul style="list-style-type: none"> I can add and subtract numbers up to 4 digits using columnar methods I can estimate and use inverse operations to check answers to a calculation I can solve addition and subtraction two-step problems in contexts, deciding which operations to use and why 	<ul style="list-style-type: none"> I can recall multiplication and division facts up to 12x12 I can 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 I can recognise and use factor pairs and commutativity in mental calculations I can multiply and divide two-digit and three-digit numbers by a one-digit number using a formal layout I can solve problems involving multiplying and adding, including integer scaling problems and harder correspondence problems such as n objects are connected to m objects I can use the distributive law to multiply two digit by one digit numbers 	<ul style="list-style-type: none"> I can recognise and show, using diagrams, families of common equivalent fractions I can count up and down in hundredths; recognise that hundredths arise when dividing an object by a hundred and dividing tenths by ten I can 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 I can add and subtract fractions with the same denominator I can recognise and write decimal equivalents of any number of tenths or hundredths I can recognise and write decimal equivalents to 1/4, 1/2, 3/4 I can solve simple measure and money problems involving fractions and decimals to two d.p.
15	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9, 25 and 1000 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. Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout. 	<ul style="list-style-type: none"> Compare numbers with the same number of decimal places up to two decimal places. Round decimals with one decimal place to the nearest whole number. Recognise and write decimal equivalents to 1/4, 1/2 and 3/4 Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths
14	<ul style="list-style-type: none"> Count in multiples of 6, 7, 9, 25 and 1000. Find 1000 more or less than a given number. Recognise the place value of each digit in a four digit number (thousands, hundreds, tens and ones) Order and compare numbers beyond 1000 Identify, represent and estimate numbers using different representations. Round any number to the nearest 10, 100 or 1000 Solve number and practical problems that involve all of the above and with increasingly large positive numbers. Count backwards through zero to include negative numbers. Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. 	<ul style="list-style-type: none"> Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two step problems in contexts, deciding which operations and methods to use and why. 	<ul style="list-style-type: none"> Recall and use multiplication and division facts for multiplication tables up to 12 × 12. Count in multiples of 6, 7, 9, 25 and 1000 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. Recognise and use factor pairs and commutativity in mental calculations. Multiply two digit and three digit numbers by a one digit number using formal written layout. 	<ul style="list-style-type: none"> Recognise and show, using diagrams, families of common equivalent fractions. Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten. 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. Recognise and write decimal equivalents of any number of tenths or hundredths. Find the effect of dividing a one or two digit number by 10 or 100, identifying the value of the digits in the answer as ones, tenths and hundredths
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4	Measures	Statistics	Position and Direction	Properties of Shapes
End of year expectations				
<ul style="list-style-type: none"> • I can convert between different units of measure (e.g. km to m; hr to min) • I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • I can find the area of rectilinear shapes by counting squares • I can read, write and convert time between analogue and digital 12 and 24hr clocks • I can solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days • I can estimate, compare and calculate different measures, including money in pounds and pence <ul style="list-style-type: none"> • I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs • I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables, graphs <ul style="list-style-type: none"> • I can describe positions on 2D grids as coordinates in the first quadrant • I can describe movements between positions as translations of a given unit to the left/right and up/down • I can plot specified points and draw sides to complete a given polygon <ul style="list-style-type: none"> • I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes • I can identify acute and obtuse angles and compare and order angles up to two right angles (180 degrees) by size • I can identify lines of symmetry in 2D shapes presented in different orientations • I can complete a simple symmetric figure with respect to a specific line of symmetry 				
15				
<ul style="list-style-type: none"> • 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. • Convert between different units of measure [for example, kilometre to metre; hour to minute] • Read, write and convert time between analogue and digital 12- and 24-hour clocks. • Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Describe positions on a 2-D 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. <ul style="list-style-type: none"> • 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 2-D shapes presented in different orientations. • Complete a simple symmetric figure with respect to a specific line of symmetry. 				
14				
<ul style="list-style-type: none"> • Find the area of rectilinear shapes by counting squares. • Solve simple measure and money problems involving fractions and decimals to two decimal places. • Convert between different units of measure [for example, kilometre to metre] 				
13				
<ul style="list-style-type: none"> • Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres • Convert between different units of measure [for example, kilometre to metre] 				