Y3 Long Term Plan

Autumn Term	Place Value 14 lessons	Addition & Subtraction 22 lessons	Multiplication & Division 15 lessons
NC Objectives	Identify, represent and estimate numbers using different representations Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number Read and write numbers up to 1,000 in numerals and words Compare and order numbers up to 1,000	Add and subtract numbers mentally, including: • a 3-digit number and ones • a 3-digit number and tens • a 3-digit number and hundreds Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 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	Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods Show that multiplication of two numbers can be done in any order (commutative) and division on one number by another cannot (Y2) Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2) Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

Spring Term	Multiplication & Division 11 lessons	Length & Perimeter 12 lessons	Fractions 10 lessons
NC Objectives	Recall and use multiplication facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods Solve problems, including missing number problems, involving multiplication and division,	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Measure the perimeter of simple 2-D shapes	Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators Compare and order unit fractions, and fractions with the same denominators Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators Recognise and show, using diagrams, equivalent fractions with small denominators

	including positive integer scaling problems and correspondence problems in which n objects are connected to m objects					
Summer Term	Fractions 6 lessons	Money 5 lessons	Time 12 lessons	Shape 10 lessons	Statistics 6 lessons	Mass & Capacity 11 lessons
NC Objectives	Add and subtract fractions with the same denominator within one whole Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators	Add and subtract amounts of money to give change, using both £ and p in practical contexts	Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks 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, am/pm, morning, afternoon, noon and midnight 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	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 a complete turn; identify whether angles are greater than or less than a right angle Measure the perimeter of simple 2-D shapes Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);	Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables	Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

			time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight Compare durations of events	volume/capacity (l/ml) Identify horizontal and vertical lines and pairs of perpendicular and parallel lines Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them		

Y4 Long Term Plan

Autumn Term	Place Value 17 Lessons	Addition and Subtraction 10 lessons	Measurement - Area 4 Lessons	Multiplication & Division 13 lessons
NC Objectives	Read and write numbers up to 1,000 in numerals and words (Y3) Identify, represent and estimate numbers using different representations Count in multiples of 6, 7, 9, 25 and 1,000 Recognise the place value of each digit in a 4-digit number (thousands, hundreds, tens and ones) Find 1,000 more or less than a given number Order and compare numbers beyond 1,000 Read Roman numerals to 100 (I to C) and know that over time, the	Add and subtract numbers with up to four 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 Estimate and use inverse operations to check answers to a calculation	Find the area of rectilinear shapes by counting squares	Recall multiplication and division facts for multiplication tables up to 12 × 12 Recognise and use factor pairs and commutativity in mental calculations Count in multiples of 6, 7, 9, 25 and 1,000 Count in multiples of 6, 7, 9, 25 and 1,000 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

	numeral system changed to include the concept of zero and place value Round any number to the nearest 10, 100 or 1,000				
Spring Term	Multiplication & Division 15 lessons		Length & Perimeter 9 lessons	Fractions 15 lessons	
Objectives	Recognise and use factor pairs and commutativity in mental calculations Recall multiplication and division facts for multiplication tables up to 12 × 12 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000 (Y5) Solve problems involving multiplying and adding, including using the distributive law to multiply 2-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to *m* objects Multiply 2-digit and 3-digit numbers by a 1-digit number using 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 3 numbers		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 There are small steps in this area that is not taken from the Year 4 National Curriculum. It is included to take into account the non-statutory DfE Ready to Progress guidance	Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators (Y3) Recognise and show, using diagrams, families of common equivalent fractions Add and subtract fractions with the same denominator There are small steps in this area that is not taken from the Year 4 National Curriculum. It is included to take into account the non-statutory DfE Ready to Progress guidance	
Summer Term	Decimals 18 lessons	Money 6 lessons	Time 5 Lessons	Shape 8 lessons	Statistics 4 lessons	Position & Direction 5 lessons
Objectives	Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing 1-digit numbers or quantities by 10 (Y3)	Estimate, compare and calculate different measures, including money in pounds and pence	Solve problems involving converting from hours to minutes, minutes to seconds, years	Recognise angles as a property of shape or a description of a turn (Y3) Identify acute and obtuse angles and compare and order angles up to two right angles by size Identify acute and obtuse angles and compare and order angles up to two right angles by size	Interpret and present discrete and continuous data using appropriate graphical methods,	Describe positions on a 2-D grid as coordinates in the first quadrant Plot specified points and draw sides to complete a given polygon

	Recognise and write decimal equivalents of any number of tenths or hundredths Compare numbers with the same number of decimal places up to 2 decimal places Find the effect of dividing a 1- or 2-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths Count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10 Recognise and show, using diagrams, families of common equivalent fractions Solve simple measure and money problems involving fractions and decimals to 2 decimal places Round decimals with 1 decimal place to the nearest whole number Recognise and write decimal equivalents to 1/4, 1/2 and 3/4		to months, weeks to days Read, write and convert time between analogue and digital 12- and 24-hour clocks	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	including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	Describe movements between positions as translations of a given unit to the left/right and up/down