Year 3 – Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Number – Place Value** Read and write numbers to 1000 in numerals and words *3NPV-1 *Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10.* 3NPV-2 Recognise the place value in 3-digit numbers, and compose and decompose using partitioning *3NPV-3 *Reason about the location of any 3-digit number in the linear number system – previous and next multiples of 100 and 10* *3NPV-4 *Divide 100 into 2, 4, 5 and 10 equal parts and read scales or number lines marked in multiples of 100* Find 1, 10, 100 more or less than a given number Compare and order numbers to 1,000 Count from 0 in multiples of 50 and 100				**Number – Addition and Subtraction** *3NF-1 *Secure fluency in addition and subtraction facts that bridge 10* 3NF – 3 Apply place value knowledge to known facts e.g. 8 + 6 = 14 80 + 60 = 140 *3AS-1 *Calculate complements to 100 e.g. 46 +? = 100* Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds 3AS-2 Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction 3AS-3 manipulate the additive relationship				**Number – Multiplication and Division** 3NF – 2 Recall and use multiplication and division facts for the 10, 5, 2, 4 and 8 multiplication tables. Know multiplication and division facts for the 3 times table *3NF-3 *Apply place value knowledge to known facts* *e.g. 8 x 2 = 16 80 x 2 = 160* *3MD-1 *Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division.*		**Assess and Review**
Spring	**Number – Multiplication and Division** Multiply and divide two digits by one digit using formal written method Solve missing number problems Solve scaling problems (e.g. five times bigger, 10 times smaller)			**Measurement Money** Pounds and pence Converting pounds and pence Adding and Subtracting money Giving change	**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?'		**Measurement Length and Perimeter** Measure length Equivalent lengths – m & cm Equivalent lengths – mm & cm Compare lengths Add lengths Subtract lengths Measure perimeter Calculate perimeter		**Number – Fractions** 3F-1 Interpret and write proper fractions 3F-2 Find unit fractions of quantities and non-unit fractions of quantities with small denominators 3F-3 Reason about the location of any fraction within 1 Count up and down in tenths		**Assess and Review**
Summer	**Number – Fractions** Recognise and show, using diagrams, equivalent fractions with small denominators. Compare and order unit fractions, and fractions with the same denominators. 3F-4 Add and subtract fractions with the same denominator within one whole Solve problems that involve all of the above.			**Measurement- Time** Seconds in a minute, minutes in an hour Hours in a day Days, months and years Telling the time to 5 minutes Telling the time to the minute 12 and 24-hour clock times Compare the duration of events		**Geometry Properties of Shapes** 3G-1 Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes Compare angles 3G-2 *Draw polygons by joining marked points and identify parallel and perpendicular sides Horizontal and vertical Recognise and describe 2D and 3-D shapes Make 3-D shapes using modelling materials	**Measurement Mass and Capacity** Measure, compare add and subtract mass (kg / g) Measure, compare add and subtract capacity (l, ml)			**Assess and Review**

Year 4 – Maths Medium term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Number – Place Value** **4NPV-1 Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.* 4NPV-2 Recognise the place value in four-digit numbers, and compose and decompose using partitioning. *4NPV-3 * Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100* 4NPV-3 Round to nearest 10, 100 or 1000. *4NPV-4 * Divide 1,000 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 1,000 with 2, 4, 5 and 10 equal parts* Number line to 10,000 Compare and order numbers Negative numbers 1,000 more or less Count in 25s Roman numerals to 100				**Number** **Addition and Subtraction** Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction. Estimate and use inverse operations to check answers to a calculation. Solve addition and subtraction two step problems in contexts, *4NF-3 *Apply place value knowledge to known facts* *e.g. 8 + 6 = 14 800 + 600 = 1400*			**Measurement** **Length and Perimeter** Kilometres Perimeter on a grid Perimeter of a rectangle Perimeter of rectilinear shapes 4G-2 Find the perimeter of regular and irregular polygons.	**Number** **Multiplication and Division** 4MD-1 Multiply and divide by 10 and 100 Multiply by 1 and 0 Divide by 1 Multiply and divide by 6 6 times-table and division facts Multiply and divide by 9 9 times-table and division facts Multiply and divide by 7 7 times-table and division facts 4NF-1 Recall multiplication and division facts up to 12 x 12 4NF-3 Apply place value knowledge to known facts e.g. 8 x 2 = 16 800 x 2 = 1600 4MD-2 Manipulate multiplication and division equations, and understand and apply the commutative property of multiplication. 4MD-3 Understand and apply the distributive property of multiplication.			**Assess and Review**
Spring	**Number** **Multiplication and Division** 11 and 12 times-table Multiply 3 numbers Factor pairs Written method for short multiplication Written method for short division *4NF-2 *Solve division problems that involve remainders and interpret remainders appropriately according to the context.* Correspondence problems			**Measurement** **Area** Find the area of rectilinear shapes by counting squares.	**Fractions** Recognise families of common equivalent fractions *4F-1 *Reason about the location of mixed numbers in the linear number system* *4F-2 *Convert between improper fractions and mixed numbers* Count in fractions Add 2 or more fractions Subtract 2 fractions Subtract from whole amounts *4F-3 *Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers* Calculate fractions of a quantity Problem solving with fractions			**Decimals** Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid Tenths on a number line Divide 1 by 10 Hundredths Hundredths as decimals Hundredths on a place value grid Divide 1 or 2 digits by 100			**Assess and Review**
Summer	**Decimals** Make a whole Write decimals Compare decimals Order decimals Round decimals Halves and quarters		**Measurement Money** Pounds and pence Ordering amounts of money Using rounding to estimate money Solve money problems using four operations		**Time** Hours, minutes and seconds Years, months, weeks and days Analogue to digital – 12hr Analogue to digital – 24hr	**Statistics** Interpret charts Solve comparison, sum and difference problems Line graphs	**Geometry** **Properties of Shape** Identify angles Compare and order angles Triangles Quadrilaterals 4G-3 Identify lines of symmetry in 2-D shapes *4G-2 *Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal.*		**Geometry** **Position and Direction** 4G-1 Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.	**Assess and Review**

Year 5 – Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Number – Place Value** **Roman numerals** Numbers to 1000 and years **Number to 10,000, 100,000 and 1,000,000** Read and write numbers Partition numbers 1, 10, 100, 1000, 10000 more or less Number lines Order and compare numbers **Rounding numbers** Round to the nearest 10, 100 and 1,000 **Negative numbers** Count forwards and backwards across zero			**Number – Addition and Subtraction** **Mental strategies** 5NF-2 Apply place-value knowledge to known number facts e.g. 8+6 = 14 0.8 + 0.6 = 1.4 Column method for addition and subtraction Round to check answers Inverse operations Multi-step addition and subtraction problems Find missing numbers		**Number – Multiplication and Division** 5NF-1 Fluency in multiplication and division facts 5NF-2 Apply place-value knowledge to known number facts 5MD-1 Multiplying and dividing by 10,100 and 1000 5MD-2 Multiples and factors Prime numbers Square and cube numbers Inverse operation			**Number – Fractions A** Identifying fractions on shaded shapes 5F-2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system. Convert between mixed numbers and improper fractions Compare and order fractions Number sequences with fractions Add and subtract fractions and mixed numbers			
Spring	**Number – Multiplication and Division** 5MD-3 Multiply 4-digits by 1-digit Multiply 2-digits by 2-digits Multiply 3-digits by 2-digits Multiply 4-digits by 2-digits 5MD-4 Divide 4-digits by 1-digit Divide with remainders			**Number – Fractions B** Multiply fractions and mixed numbers by a whole number 5F-1 Find non-unit fractions of quantities		**Number – Decimals and Percentages** 5NPV-1 Understand tenths and hundredths 5NPV-2 Numbers with 2 decimal places 5NPV-3 Round to nearest 1 or 0.1 5NPV-4 Divide 1 into 2, 4, 5 and 10 equal parts Understand thousandths 5F-3 Key decimal fraction equivalents ½, ¼ 1/5, 1/10 Equivalent fractions, decimals and percentages		**Area and Perimeter** Measure perimeter Calculate perimeter Find unknown lengths **5G-2 Area of rectangles** Area of compound shapes Estimate and approximate area		**Statistics** Read and interpret line graphs Draw line graphs Use line graphs to solve problems Read and interpret tables Two-way tables Timetables	
Summer	**Geometry – Properties of shapes** 5G-1 Compare angles, estimate, measure and draw angles Types of angles and using a protractor Angles on a straight line and around a point, angles in squares and rectangles Properties of 3-D shapes Regular and irregular shapes Angles in triangles			**Geometry – Position and Direction** Coordinates Translation and reflection		**Number - Decimals** Adding and subtracting decimals Decimal sequences Multiplying and dividing decimals Multiplying decimals by 10, 100 and 1,000 Dividing decimals by 10, 100 and 1,000 Word problems involving money		**Measurement – Converting Units** 5NPV-5 Convert between units of mass, length and capacity, including using common decimals and fractions **Volume** Estimate volume using cm cubes Volume of cubes and cuboids		**Time** Units of time Analogue and digital 12- and 24-hour times Timetables	

Year 6 – Maths Medium Term Plan

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	**Number – Place Value** 6NPV-2 Numbers to ten million Read, write order and compare numbers 6NPV-3 Rounding numbers 6NPV-4 Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. Negative numbers Roman Numerals		**Number – Addition and Subtraction, Multiplication and Division** Column addition and subtraction Factors, multiples, square numbers, Cube numbers and prime numbers Short and long multiplication Short and long division 6AS/MD-1 Understand that 2 numbers can be related additively or multiplicatively 6AS/MD-1 Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. Solve multi-step problems using all four operations Order of operations				**Fractions** 6F-1 Recognise when fractions can be simplified and use common factors to simplify fractions 6F-2 Express fractions in a common denomination and use this to compare fractions that are similar in value. 6F-3 Compare fractions with different denominators, including fractions greater than 1, using reasoning and choose between reasoning and common denomination as a comparison strategy Add and subtract fractions Multiply fractions by a whole number Multiply fractions by another fraction Divide fractions by a whole number Find a fraction of an amount			**Geometry Position and direction** Coordinates in four quadrants Translations Reflections
Spring	**Number – Ratio** 6AS/MD-3 Identify ratios and solve ratio problems Use scale factors		**Number – Algebra** Function machines Number sequences Using formulae Finding missing values in expressions and equations 6AS/MD-4 Solve problems with two unknowns		**Number - Decimals** Numbers with 3 decimal places 6NPV-1 Multiply and divide by 10, 100 and 1000 Multiply and divide decimals Convert between decimals and fractions		**Number – Fractions, Decimals and Percentages** Equivalent fractions decimals and percentages Order fractions, decimals and percentages Find a percentage of an amount		**Measurement Converting units** Units of length, mass, capacity and time **Perimeter, Area and Volume** Perimeter and area Shapes with same area can have different perimeters Area of triangles and parallelograms Volume of cubes and cuboids		**Geometry – properties of shapes** Draw and measure angles Find missing angles on a straight line, around a point and in shapes Properties of 2-D and 3-D shapes Properties of circles 6G-1 Draw, compose and decompose shapes according to given properties	
Summer	**Statistics** Mean averages, Line graphs, Pie charts Timetables	**SATS Revision**	**SATS**	**2-D shape** **Tessellation** **Properties of circles**		**Symmetry**	**Algebra Equations**	**Algebra Sequences**	**Probability**	**Problem Solving**		