Maths Yearly Overview Year: 3

	Autumn 1 1.1 (8 weeks)	Autumn 2 1.2 (7 weeks)	Spring 1 2.1 (6 weeks)	Spring 2 2.2 (6 weeks)	Summer 1 3.1 (5 weeks)	Summer 2 3.2 (7 weeks)
Week 1	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Recap properties of 2D and 3D shapes Reasoning problems Numbers up to 1000 3a Unit 1 Counting and place value NC: Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s) compare and order numbers up to 1,000 identify, represent and estimate numbers using different representations read and write numbers up to 1,000 in numerals and in 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.**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Reading scales Reasoning problems NC: Solve problems including missing number problems, using number facts, place value and more complex addition and subtraction. NC: Estimate answer to a calculation and use inverse operations to check answers. **3AS–3 Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part–part–whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction.**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Adding hundreds, tens and ones to a number up to 1000 Reasoning problems 3a Unit 7 Division of 2d by 1d NC: Pupils develop reliable written methods for division starting with calculations of 2 digit numbers by 1 digit numbers and progressing to the formal written methods of formal written methods of short multiplication and division.	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Addition and subtraction (regrouping) Reasoning problems 3B Unit 11 Length 3B Unit 12 Solving word problems: length Add and subtract lengths	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Money Reasoning problems 4A Unit 5 Fractions NC: Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. **3F–4: Add and subtract fractions with the same denominator, within 1.**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Partitioning numbers in different ways Reasoning problems 3B Unit 15 Time NC: Estimate and read time with increasing accuracy to the nearest minute, compare times in terms of seconds, minutes, hours, o clock etc. Calculate the time taken to complete tasks Solve one step and 2 step questions eg how many more / fewer using scaled bar charts, pictograms and tables
Week 2	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Telling the time to the nearest 5 minutes Reasoning problems Numbers up to 1000 3a Unit 1	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Measuring lines with a ruler Reasoning problems NC: Solve problems including missing number problems, using number	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Regrouping when subtracting Reasoning problems 3a Unit 8 Solving word problems – multiplication and division	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Adding 1, 10 and 100 to a number Reasoning problems 3B Unit 18 Area and perimeter	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Division using sharing circles Reasoning problems 4B Unit 9 Decimals	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Finding the missing number in addition and subtraction problems Reasoning problems 3B Unit 16 Angles

	Comparing, order and patterns NC: Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s) **3NPV-2: Recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and non-standard partitioning.**	facts, place value and more complex addition and subtraction. NC: Estimate answer to a calculation and use inverse operations to check answers.	NC: Pupils solve different problems in context deciding which operation to use and why (multiplication and division) NC: Estimate answer to a calculation and use inverse operations to check answers. **3NF–3: Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10).**	NC: Measure the perimeter of simple 2D shapes.	NC: 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.	NC: Draw 2 D shapes and make 3D shapes using modelling materials; recognise 3D shapes in different orientations and describe them. 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. **3G–1: Recognise right angles as a property of shape or a description of a turn, and identify right angles in 2D shapes presented in different orientations.**
Week 3	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Fractions – halves / quarters / three quarters Reasoning problems Numbers up to 1000 3a Unit 1 Comparing, order and patterns NC: Compare and order numbers up to 1,000 identify, represent and estimate numbers using different representations **3NPV-3: Reason about the location of any threedigit number in the**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Finding 10 or 100 more than a given number Reasoning problems 3A Unit 5 Using models multiplication NC: Recall and use multiplication and division facts for the 3, 4 and 8 times tables NC: Through doubling they connect the 2, 4 and 8 multiplication tables. **3NF–2: Recall multiplication facts, and**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Partitioning Reasoning problems 3a Unit 8 Solving word problems – multiplication and division NC: Pupils solve different problems in context deciding which operation to use and why (multiplication and division) **3MD–1: Apply known multiplication and division facts to solve contextual problems with different structures,**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Doubles and halves Reasoning problems 3B Unit 14 Fractions NC: Recognise and show, using diagrams, equivalent fractions with small denominators Solve problems that involve comparing, ordering, adding and subtracting fractions. **3F–1: Interpret and write proper fractions to represent 1 or several**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Recap finding eighths by halving and halving again Reasoning problems 4B Unit 9 Decimals NC: 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.	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Reading scales Reasoning problems 3B Unit 17 Perpendicular and parallel lines NC: Identify horizontal and vertical lines and pairs of perpendicular and parallel lines. **3G–2: Draw polygons by joining marked points, and identify parallel and perpendicular sides.**

	linear number system, including identifying the previous and next multiple of 100 and 10.	**corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number.**	**including quotitive and partitive division.**	**parts of a whole that is divided into equal parts.**		
Week 4	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Division Reasoning problems NC: Add and subtract numbers mentally, including: a three-digit number and 1s a three-digit number and 10s a three-digit number and 100s **3NF–1: Secure fluency in addition and subtraction facts that bridge 10, through continued practice.** **3AS–1 Calculate complements to 100.**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Finding 10 or 100 less than a given number Reasoning problems 3a unit 6 multiplication without regrouping NC: 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 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	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Number facts - make it 20 times bigger etc Reasoning problems Recognise symbols and coins Adding and subtracting money NC: recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. NC: Add and subtract amounts of money to give change including pounds and pence in practical contexts. NC: Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Telling the time Reasoning problems 3B Unit 14 Fractions NC: Recognise and show, using diagrams, equivalent fractions with small denominators Solve problems that involve comparing, ordering, adding and subtracting fractions. **3F–2: Find unit fractions of quantities using known division facts (multiplication tables fluency).**	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Multiplying using written methods Reasoning problems Time NC: Know the number of seconds in a minute and the number of days in each month, year and leap year. Compare durations of events eg time taken by particular events or tasks	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 pictograms Reasoning problems 3B Unit 11 Mass and volume Add and subtract mass, volume and capacity NC: Add and subtract mass, volume and capacity
Week 5	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Fact Families – multiplication and division Reasoning problems 3A unit 2 Simple addition without regrouping.	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Finding 10 or 100 less than a given number Reasoning problems 3a Unit 7 Division of 2d by 1d	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Fractions – finding a half, a quarter and three quarters Reasoning problems 3B Unit 13 Graphs	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Recap measure: length, mass, volume Reasoning problems 4A Unit 5 Fractions	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Time facts and conversion Reasoning problems 3B Unit 15 Time	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Parallel and perpendicular lines and angles Reasoning problems 3B Unit 12 Solving word problems: mass and volume

	Add within 1000. Use concrete representations to add. NC: Add and subtract numbers mentally, including: a three-digit number and 1s a three-digit number and 10s a three-digit number and 100s NC: Add and subtract numbers up to 3 digits using formal written methods of columnar addition **3AS–2: Add and subtract up to three-digit numbers using columnar methods**	NC: Pupils develop reliable written methods for division starting with calculations of 2 digit numbers by 1 digit numbers and progressing to the formal written methods of formal written methods of short multiplication and division. **3NPV–4: Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.**	NC: Interpret and present data using bar charts, pictograms and tables. Solve one and two step questions eg how many more / fewer using information presented in scaled bar charts, pictograms and tables.	NC: Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators. **3F–3 Reason about the location of any fraction within 1 in the linear number system.**	NC: 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. Tell and write the time from an analogue clock, including using Roman numerals from I to XII and 12 and 24 hour clocks	NC: Add and subtract mass, volume and capacity
Week 6	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Number facts within 10/ 20 / 100 Reasoning problems 3a Unit 2 Addition with regrouping to 1000. NC: Add and subtract numbers up to 3 digits using formal written methods of column addition	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Shape – 2D and 3D Reasoning problems 3a Unit 7 Division of 2d by 1d NC: Pupils develop reliable written methods for division starting with calculations of 2 digit numbers by 1 digit numbers and progressing to the formal written methods of formal written methods of short multiplication and division.	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Shape – 2D and 3D Reasoning problems 3B Unit 13 Bar graphs NC: Solve one step and two step questions for example how many more, how many fewer, using information presented in scaled bar charts, pictograms and tables	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Comparing and ordering numbers up to 1000. Greater than and less than signs. Reasoning problems Consolidation		Maths meetings: Counting 3, 4, 8 / 2, 5, 10 angles Reasoning problems Measurement: Mass and Capacity NC: Add and subtract mass, volume and capacity
Week 7	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Coins – making different amounts Reasoning problems 3a unit 3	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Finding 10 or 100 less than a given number Reasoning problems				Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Money Reasoning problems Consolidation

	Subtraction within 1000 Without regrouping NC: Add and subtract numbers mentally, including: a three-digit number and 1s a three-digit number and 10s a three-digit number and 100s NC: Add and subtract numbers up to 3 digits using formal written methods of columnar subtraction	Multiplication and division consolidation				
Week 8	Maths meetings: Counting 3, 4, 8 / 2, 5, 10 Part part whole addition and subtraction Reasoning problems 3a Unit 3 Subtraction of numbers within 1000 with regrouping. NC: Add and subtract numbers up to 3 digits using formal written methods of columnar subtraction					