Maths Overview 24 -25

	Autumn	Spring	Summer
Year 1 Power Maths Lessons (inc reasoning and problem solving)	**Place Value** • Numbers to 10 **Addition & Subtraction** • Part- whole model with 10 • Addition within 10 • Subtraction within 10 **Geometry** • 2D and 3D Shapes	**Place Value** • Number to 20 **Addition & Subtraction** • Addition & Subtraction within 20 **Place Value** • Numbers to 50 **Measurement** • Length & height • Weight and volume	**Number** • Multiplication and division **Fractions** • Halves and Quarters **Geometry** • Numbers to 50 **Measurement** • Length & height • Weight and volume
Year 1 Fluency - four rules of number (including place value)	• Writing numbers 1-20 in numerals and words. • Number bonds to 10 • Addition and subtraction with 10 Continue to review previous learning. **Mastering number to support arithmetic**.	• Count to 100 • Number bonds to 20 • Add and Subtract one-digit and two-digit number to 20 including 0 Continue to review previous learning. **Mastering number to support arithmetic**	• Count in 2's 5's and 10's • Missing number problems to 20 • Find half of a number/shape or object • Find a quarter of a number/shape or object Continue to review previous learning. **Mastering number to support arithmetic**

Year 2
 	
Power Maths Lessons (inc reasoning and problem solving)
	Place Value
	• Numbers to 100
	Addition & Subtraction
	• Add 3 one digit numbers
	• Add & subtract 1 digit from a 2digit number.
	• Add & subtract two 2-digit numbers
	Geometry
	• Properties of 2D and 3D Shapes
		Measurement
		• Money
		  • Count money
		  • Find change within £1
		Multiplication & Division
		• 2, 5, 10 times tables
		• Count in 3's
		Measurement
		• Length & height
		• Mass, capacity and temperature
			Fractions
			• ½ ¼ 2/4 ¾
			• 1/3, 2/3
			• Faction of a number
			• Fractions of shapes
			
			Time
			• Tell the time to 5 minutes
			• Minutes in an hour
			• Hours in a day

			Problem Solving • Missing number problems • Using number facts • Using 100 square • Addition and subtraction problem solving questions. **Position and Direction** • Length & height • Mass, capacity and temperature **Statistics** • Length & height • Mass, capacity and temperature

Year 2
 	
Fluency - four rules of number (including place value)
	• Place value – two digit numbers
	• Number bond to 20
	• Add 3 one digit numbers
	• Add & subtract:
	   o a two-digit number and 1s
	   o a two-digit number and 10s
	   o 2 two-digit numbers
	• Commutative Law
	• Inverse
	
	Mastering number to support arithmetic.
		• 2, 5, and 10 times table questions.
		• 2, 5, and 10 division questions
		• Missing number problems – linked to four rules of number.
		
		Continue to recap Autumn learning
		Mastering number to support arithmetic.
			• ½ of a number
			• ¼ of a number
			• 1/3, 2/3 of a number
			• ¾ of a number
			
			Continue to recap Autumn & Spring learning
			Mastering number to support arithmetic.

Maths Overview 24 -25

Year 3 Power Maths Lessons (inc reasoning and problem solving)	**Place Value** • Numbers to 1000 **Addition & Subtraction** • Add and subtract 1's, 10's and 100's • Crossing 10's • Crossing 10'sacross 100 • Add and subtract 3 digit number and 2 digit number • Add and subtract 3 digit number and 3digit number • Inverse, estimate and complements to 100 **Multiplication & Division** • Multiples of 2, 5 and 10 • Multiply and divide by 3, 4 and 8	**Multiplication & Division** • Multiply 2 digit by 1 digit • Divide 2 digit by 1 digit **Measurement** • Length & perimeter **Fractions** • Unit and non-unit fractions • Equivalent fractions **Measurement** • Mass • Capacity	**Fraction** • Add and subtract fractions • Find fractions of number/objects/shape **Measurement** • Money – add & subtract money to give change. £ and p **Time** • 12 hr and 24hr clock • Roman numerals for time • Number on seconds in a minute , number of days in each month- year and leap year • Compare durations of events **Geometry** • Draw 2D and 3D shapes • Identify right angles • Recognise angles as a property of shape **Statistics** • Interpret and present data

Year 3
 	
Fluency - four rules of number (including place value)
	• Add and subtract numbers with 3 digits
	• Add and subtract numbers mentally including:
	   o Three digit number and 1's
	   o Three digit numbers and 10's
	   o Three digit numbers and 100's
		• Multiplication and division questions involving: 3, 4, 8 times tables
		• Use of inverse
		• Fraction of an amount
		
		Continue to recap Autumn learning. Include the following
			Include the following
			
			• Add and subtract fractions
			
			Continue to consolidate Autumn and Spring learning.

- Multiplication and division questions involving: 2, 5, and 10

Missing number problems involving the above learning.

National Curriculum suggests columnar method

Year 4

Power Maths Lessons (inc reasoning and problem solving)

Place Value
- Place value of 4 digit numbers
- Count in multiples of 6, 7, 9, 25 and 1000
- 1000 more or less
- Order 4 digit numbers

Addition & Subtraction
- Add and subtract 4 digit numbers
- Use inverse operation

Measurement
- Find the area of a shape
- Compare and calculate involving pounds and pence

Multiplication and division
- Multiply and divide by of 3, 6,9, 7, 11, 12

Multiplication & Division
- Multiply and divide by 10
- Multiply 2 digit by 1 digit
- Multiply 3 digit by 1 digit
- Divide 2 digit and 3 digit numbers

Measurement
- Length and perimeter
- Convert different unity of measure

Fractions
- Count beyond 1
- Compare and order mixed fractions
- Convert fractions
- Equivalent fractions
- Simplify fractions
- Add and subtract fractions inc mixed numbers
- Fractions of an amount

Decimals
- Recognise and write equivalents of any number of tenths or hundredths
- Divide 1 or 2 digits by 100

Decimals
- Recognise and write decimal equivalents of tenths or hundredths.
- Recognise and write decimals equivalents ¼, ½ ¾
- Round decimals to the nearest whole number
- Compare numbers with up to 2 decimal places

Measurement
- Money- estimate , compare and calculate different amounts of money.

Time:
- Convert units of time inc years, months, days, hours, 12hr and 24hr clock

Geometry
- Compare and classify geometric shapes
- Identify and compare acute and obtuse angles
- Identify lines of symmetry in 2D shapes

		• Divide by 10 and 100	• Complete a simple symmetric figure
Year 4 Fluency - four rules of number (including place value)	• Add and subtract numbers up to 4 digits using formal written methods. • Recall multiplication fact for multiplication tables up to 12 x 12 Missing number problems involving the above.	• Add and subtract fractions • Add and subtract decimals. • Fractions of an amount • Multiply two-digit and three digit numbers by a 1 digit number using formal written layout. Continue to recap Autumn learning. Include the following	Continue to consolidate Autumn and Spring learning.

Year 5 Power Maths Lessons (inc reasoning and problem solving)	**Place Value** • Roman numerals • Numbers up to 1,000,000 • Read and write 5 digit numbers • Powers of 10 • Compare and order numbers up to 1,000,000 • Round numbers to nearest 10, 100, 1000, 10000 **Addition & Subtraction** • Add and subtract numbers with more than 4-digit numbers • Use inverse operation • Missing number problems	**Multiplication & Division** • Multiply and divide numbers up to 4-digits by a 1 digit number • Multiply and divide 2 digit numbers (area model) • Multiply and divide 3 digit by 2 digit • Multiply and divide 4-digit by 2 digit • Divide with remainders **Fractions** • Multiply proper fractions and mixed umbers by whole numbers	**Geometry** • Measure angles • Draw lines and angles accurately • Calculate angles • Parallel and perpendicular lines • Regular and irregular polygons • Identify 3D shapes from 2D representations **Geometry – position and direction** • Describe positions on a 2D grid as coordinate • Plot specific points • Identify and describe the position of a shape

- Multistep addition and subtraction problems

Multiplication and division
- Multiple, common multiples
- Factor, common factors
- Prime numbers
- Square numbers
- Cube numbers
- Multiply and divide by 10, 100, 1000
- Multiples of 10,100,1000

Fractions
- Equivalent fractions
- Improper fractions
- Mixed number to improper fractions
- Compare and order fractions less than 1
- Compare and order fractions greater than 1
- Add and subtract fractions
- Add and subtract two mixed numbers

- Convert from mixed number to improper fractions and write statements including this

Decimals and Percentages
- Read and write decimals as fractions
- Recognise and use thousandths and relate them to equivalents
- Round decimals to two decimal places
- Read write and order up to 3 decimal places.
- solve problems which require knowing percentage and decimal equivalents of 1/2, 1/4, 1/5, 2/5, 4/5 and those fractions with a denominator of a multiple of 10 or 2

Measurement
- Perimeter and area
- Calculate and compare the area of rectangles

Graphs and Tables
- Read and interpret information in graphs and tables
- solve comparison, sum and difference problems using information presented in a line graph

Decimals
- Add and subtract decimals
- Complements to 1
- Add and subtract decimals with different number of points
- Problem solving with decimals
- Decimal sequences
- Multiply and divide decimals by 10, 100 and 1000

COMPLETE

Year 5

Fluency - four rules

of number (including place value)			