Maths at Jolesfield (2024-2025)

	Autumn		Spring		Summer	
EYFS	**Getting To Know You** Exploring continuous provision inside and out **Just Like Me** Match and sort Compare amounts **Number and counting songs** **Continuous provision - indoor and outdoor**	**It's Me 123** Representing 123 Comparing 123 Composition 123 Circles and Triangles Positional Language  **Light and Dark** Representing numbers to 5 One more and less **Consolidation** **Number and counting songs** **Continuous provision - indoor and outdoor**	**Alive in 5** Introducing 0 Comparing numbers to 5 Composition of 4 & 5 Compare mass Compare capacity **Growing 6, 7, 8** 678 Making pairs Combining two groups Length and Height Time) **Number and counting songs** **Continuous provision - indoor and outdoor**	**Building 9 and 10** 9 & 10 Comparing numbers to 10 Bonds to 10 3D Shape Patterns **Consolidation** **Number and counting songs** **Continuous provision - indoor and outdoor** **Funky fingers - maths activity to consolidate previous week's learning**	**To 20 and Beyond** Building numbers beyond 10 Counting patterns beyond 10 Spatial reasoning Match, rotate, manipulate **First, Then , Now** Adding more Taking away Spatial reasoning Compose and Decompose **Number and counting songs** **Continuous provision - indoor and outdoor** **Funky fingers - maths activity to consolidate previous week's learning**	**Find My Pattern** Doubling Sharing and grouping Even and odd Spatial reasoning Visualise and build **On The Move** Deepening understanding Patterns and relationships Spatial reasoning Mapping **Number and counting songs** **Continuous provision - indoor and outdoor** **Funky fingers - maths activity to consolidate previous week's learning**
Year 1	**Number: Place value (Within 10)** Count forwards to 10 Count backwards from 10 Count forwards and backwards to 20 Represent numbers from 11-20 as tens and ones Compare groups and numbers Introduce <> and = symbols Compare numbers (10 and 20) Order objects and numbers (10 and 20) Ordinal numbers The number line Sort , count and represent objects Count one more and one less **Number: Addition and Subtraction (within 10)** Fact families - addition facts Number bonds to 10 Compare number bonds Related facts Addition symbol Subtraction - breaking apart Add by counting on and making 10 **Geometry: Shape** Recognising and Naming 3-D Shapes Sorting 3-D Shapes Recognising and Naming 2-D Shapes Sorting 2-D Shapes Patterns with 2-D and 3-D shapes **Consolidation**		**Number: Place Value (Within 20)** Counting forwards and backwards from 100 Representing numbers as tens and ones Comparing groups and numbers Ordering objects **Numbers: Addition and Subtraction (Within 20)** Adding by counting on Adding by making 10 Subtraction – not crossing 10 Subtraction – crossing 10 Related Facts Comparing Number Sentences **Number: Place Value (within 50)** Numbers to 50 Counting forwards and backwards within 50 Representing numbers to 50 Tens and ones One more/less Comparing objects Comparing numbers Ordering numbers within 50 Counting in 2s and 5s **Measurement: Length and Height** Comparing lengths and height Measuring lengths (non-standard units) Measure length (1) Using a ruler Problems involving adding and subtracting length		**Number: Multiplication and Division** Counting in 2s Counting in 5s Counting in 10s Making equal groups Add, making and sharing into equal groups Using arrays Doubles **Number: Fractions** Making and finding a half Making and finding a quarter Finding a quarter/half of a quantity **Geometry: Position and Direction** Describe turns Describe position **Number: Place Value (Within 100)** Counting to 100 Partitioning numbers Comparing Numbers Ordering numbers One more, one less **Measurement: Money** Recognising coins Recognising notes Counting in coins **Measurement: Time** Time to the hour Time to the half hour	

		Measurement: Mass and Volume Measuring mass Comparing mass Capacity and volume Measuring capacity Comparing capacity Weight and mass problems	Before and After Dates Writing time Comparing time **Consolidation**
Year 2	**Number: Place Value** Count forwards and backwards to 100 Represent numbers to 100 Tens and One - part-whole model Tens and ones using addition Use a place value chart Compare objects Compare numbers Order objects and numbers **Number: Addition and Subtraction** Fact families - addition and subtraction bonds to 20 Bonds to 100 (tens and ones) Add 2 digit and 1 digit - not crossing 10 and then crossing 10 Add three 1 digit numbers Add and subtract 10 more and 10 less Add and subtract 10s **Geometry Properties of Shape** Recognise 2D and 3D shapes Count sides, vertices of 2D shapes Draw 2D shapes Lines of symmetry Count faces, edges and vertices on 3D shapes Sort 2D and 3D shapes Make patterns with 2D and 3D shapes **Consolidation**	**Measurement: Money** Counting money Making the same amount Comparing money Finding totals and differences Finding change Two-step problems involving money **Number Multiplication and Division** Make equal groups - sharing Make equal groups grouping Divide by 2 Odd and Even numbers Divide by 5 and 10 Introduce division symbol Recall division facts for 2,5,10 times table **Measurement: Length and height** Measure length (cm, m) Compare and order lengths Use four operations with lengths **Measurement: Mass, capacity and temperature** Compare mass Measure mass (g and Kg) Compare capacity Millilitres and litres Begin to measure Temperature	**Number Fractions** Recognise and find a half Make equal parts Recognise and find a quarter Recognise and find a third Unit fractions Non unit fractions Find three quarters Equivalence of 1/2 and 2.4 Count in fractions **Measurement Times** O'clock and half past quarter past and quarter to telling time to 5 minutes hours and days find and compare duration of time **Statistics** Tally charts Pictograms Drawing and interpreting pictograms Block diagrams **Geometry Position and Direction** Describe turns Describe movement and turns Describe position Making patterns with shapes **Consolidation**
Year 3	**Number: Place Value** Counting Representing numbers Find more or less Compare and Order Number lines to 100 Partitioning and representing numbers to 1,000 Estimating on a number line **Number: Addition and Subtraction** Add and Subtract multiples Addition - adding more Subtraction Estimate and Check **Number: Multiplication and Division** Equal Groups (Y3) Times Tables Comparing and Applying	**Number - Multiplication and Division** Multiplication Division Correspondence Scaling (Y3) **Measurement, Length, Area and Perimeter** Measure Length (Y3) Equivalent lengths Add and subtract lengths (Y3) Perimeter **Number - Fractions** Recognising fractions Equivalent fractions Fractions of an amount Compare and order (Y3) **Measurement – Mass and Capacity** Measure capacity Comparing capacity Temperature	**Number: Fractions** Tenths Fractions on a number line, fractions of a set of objects Equivalent fractions Comparing and ordering fractions **Number - Decimals including money** Decimals Writing and comparing money Estimate money Calculating with money **Measurement - Time** Converting time Analogue time (Y3) Digital time Finding and comparing duration **Geometry - Properties of Shape** Angles Lines (Y3) 2D shapes

			Add and subtract capacity		3D shapes (Y3) Symmetry Co-ordinates **Statistics** Pictograms (Y3) Bar Charts Tables (Y3) Line Graphs	
Years 4	**Year 4** **Number: Place Value** Roman Numerals 1,000, 100s, 10s and 1s Partitioning Number line to 10,000 Count in 1,000s Comparing and ordering numbers Negative Numbers Rounding **Number Addition and Subtraction** Add and Subtract 4 digit numbers Inverse operations Multi-step addition and subtraction problems Estimating answers **Number Multiplication and Division** Multiples and Factors Multiply and divide by 10,100 **Measurement: length, perimeter and Area** Perimeter of a rectangle Kilometres What is area? Making shapes and comparing shapes		**Year 4** **Multiplication and division** Efficient multiplication Multiply 2- and 3-digit numbers Divide 2- and 3-digit numbers by 1 digit **Fractions** Equivalent fractions Fractions greater than 1 Counting in fractions Adding and subtraction fractions Fractions of a quantity **Decimals** Tenths and hundredths Decimals on a place value grid and number line Writing decimals Divide 1-digit and 2-digit by 10 **Consolidation**		**Year 4** **Decimals** Pounds and pence Comparing and ordering decimals Money – estimating **Time** Hours, minutes, seconds Years, months, weeks, and days Analogue to digital **Statistics** Line graphs – reading, interpreting, and drawing **Properties of Shape** Identifying angles Comparing and ordering angles Triangles Quadrilaterals Lines of symmetry Symmetric Figures **Position and Direction** Describing position Drawing on a grid Moving on a grid Describing movement Translation with coordinates	
Year 5	**Number: Place Value** Number to 10,000. Roman numerals to 1,000. Round to the nearest 10, 100 and 1000. Number to 100,000. Compare and order numbers to 100,000. Round numbers within 100,000. Numbers to a million. Counting in 10s, 100s, 1,000s, 10,000s and 100,000s. Compare and order numbers to a million. Round numbers to a million. Negative numbers. **Addition and subtraction**	**Multiplication** Multiples. Factors. Common factors. Prime numbers. Square numbers. Cube numbers. Multiplying by 10, 100 and 1000. Dividing by 10, 100 and 1000. Multiples of 10, 100 and 1000. **Measurement (Perimeter and area)** measure perimeter. Calculate perimeter. Area of rectangles. Area of compound shapes. Area of irregular shapes.	**Multiplication and division** multiply 4-digits by 1-digit. Multiply 2-digits (area model). Multiply 2-digits by 2-digits. Multiply 3-digits by 2-digits. Multiply 4-digits by 2-digits. Divide 4-digits by 1-digit. Divide with remainders. **Fractions** equivalent fractions. Improper fractions to mixed numbers. Mixed numbers to improper fractions. Number sequences. Compare and order fractions less than 1.	**Decimals and percentages** decimals up to 2 decimal places. Decimals as fractions (1). Decimals as fractions (2). Understand thousandths. Thousands as decimals. Rounding decimals. Order and compare decimals. Understand percentages. Percentages as fractions and decimals. Equivalent F.D.P. **Consolidation**	**Decimals** Adding decimals within 1. Subtracting decimals within 1. Complements to 1. Adding decimals – crossing the whole. Adding decimals with the same number of decimal places. Subtracting decimals with the same number of decimal places. Adding decimals with a different number of decimal places. Subtracting decimals with a different number of decimal places.	**Geometry – position and direction** position in the first quadrant. Reflection. Reflection with coordinates. Translation. Translation with coordinates. **Measurement – Converting** kilograms and kilometres. Milligrams and millilitres. Metric units. Imperial units. Converting units of time. Timetables. **Measurement - Volume** What is volume? Compare volume.

	Add whole numbers with more than 4- digits (column method). Subtract whole numbers with more than 4-digits (column method). Round to estimate and approximate. Inverse operations (addition and subtraction). Multi-step addition and subtraction problems **Statistics** Read and interpret line graphs. Draw line graphs. Use line graphs to solve problems. Read and interpret tables. Two-way tables. Timetables.	**Consolidation**	Compare and order fractions greater than 1. Add and subtract fractions. Add fractions within 1. Add 3 or more fractions. Add fractions. Add mixed numbers. Subtract fractions. Subtract mixed numbers. Subtract – breaking the whole. Subtract 2 mixed numbers. Multiply unit fractions by an integer. Multiply non-unit fractions by an integer. Multiply mixed numbers by integers. Fraction of an amount. Using fractions as operators.		Adding and subtracting whole and decimals. Decimal sequences. Multiplying decimals by 10, 100 and 1000. Dividing decimals by 10, 100 and 1,000. **Geometry - Shape** measuring angles in degrees. Measuring with a protractor (1). Measuring with a protractor (2). Drawing lines and angles accurately. Calculating angles on a straight line. Calculating angles around a point. Calculating lengths and angles in shapes. Regular and irregular polygons. Reasoning about 3D shapes	Estimate volume. Estimate capacity. **Consolidation**
Year 6	**Number: Place Value** Numbers to ten million. Compare an order with any number. Round any numbers. Negative numbers **Number:** Addition, Subtraction, Multiplication and Division Add and subtract whole numbers. Multiply up to 4-digit by 1-digit number. Short division. Division using factors. Long division Common factors. Common multiples. Primes. Squares and cubes. Order of operations.	**Numbers: Fractions** Simplify fractions. Fractions on a number line. Compare & order (denominator). Compare & order (numerator). Add & subtract fractions (1). Add & subtract fractions (2). Adding fractions. Subtracting fractions. Mixed addition and subtraction. Multiply fractions by integers. Multiply fractions by fractions. Divide fractions by integers. Four rules with fractions. Fraction of an amount. Finding the whole. **Geometry – Position and direction** coordinates in the first quadrant. Coordinate in four quadrants. Translations. Reflections. **Consolidation**	**Number – decimals** Three decimal places. Multiply by 10, 100 and 1,000. Divide by 10, 100 and 1,000. Multiply decimals by integers. Divide decimals by integers. Division to solve problems. Decimals as fractions. Fractions to decimals. **Number – Percentages** Fractions to percentages. Equivalent FDP. Percentage of an amount Percentages – missing values Percentage increase and decrease. **Number – Algebra** Find a rule – one step. Find a rule – two step. Use an algebraic rule. Word problems. Solve simple one step equations. Solve two step equations.	**Measurement – Converting units** metric measures. Convert metric measures. Calculate with metric measures. Miles and kilometres. Imperial measures. **Measurement – Perimeter, area and volume** Shapes – same area. Area and perimeter. Area of a triangle Volume – counting cubes. Volume of a cuboid. **Number – Ratio** **U**se ratio language. Ratio and fractions. Introducing the ratio symbol. Calculating ratio. Using scale factors. Calculating scale factors. Ratio and proportion problems. **Consolidation**	**Geometry – Properties of shapes** measure with a protractor. Introducing angles. Calculate angles. Vertically opposite angles. Angles in a triangle. Angles in a triangle – special cases. Angles in a triangle – missing angles. Angles in special quadrilaterals. Angles in regular polygons. Draw shapes accurately. Nets of 3D shapes. **Problem Solving**	**Statistics** read and interpret line graphs. Draw line graphs. Use line graphs to solve problems. Circles. Read and interpret pie charts. Pie charts with percentages. Draw pie charts. The mean. **Investigations** **Consolidation**