Maths Curriculum Map

EYFS	Maths is taught through adult-led learning which supports a mastery approach to number: for example, in the autumn term - a depth of understanding of what the number '3' means. This is consolidated through high quality provision during child-initiated learning: for example, representing amounts in a range of ways using manipulatives and developing an understanding of pattern through outdoor learning.		
	(without reference to rhymes, counting or other aids) num Numerical Patterns	ber bonds up to 5 (including subtraction facts) and some nur	-
	Children will: - Verbally count beyond 20, recognising the pattern of the counting system; - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; - Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities be distributed equally. Although the expected outcomes are focussed on number and numerical patterns, our Castle Newnham Reception mathematics curriculum forms the foundation of mathematics are selected including measure, shape and space, date and time and number.		
KS1	In KS1, in addition to maths lessons, the children take par	t in a maths mastery session designed to build fluency and r	lumber understanding.
Year 1	1.1 Place Value (Within 10) 1 more 1 less Fewer, more, same Less than, greater than, equal to Comparing numbers Ordering numbers Building on knowledge in Reception. 1.2 Addition and subtraction (Within 10) Part-whole model Fact families Number bonds within 10 Number bonds to 10 Addition introduction Subtraction introduction Subtraction introduction Builds on 1.1 1.3 Geometry (Shape) Recognise and name 3-D shapes Recognise and name 2-D shapes Patterns with 2-D and 3-D shapes Building on knowledge in Reception.	 1.4 Place Value (Within 20) Number 11 to 20 Tens and ones Comparing objects and numbers Ordering objects and numbers Builds on 1.1 1.5 Addition and subtraction (Within 20) Add by making 10 Subtraction - not crossing 10 Find and make number bonds Builds on 1.2 1.6 Place Value (Within 50) Numbers to 50 Comparing objects and numbers Ordering objects and numbers Counting in 2s and 5s Builds on 1.4 1.7 Length and height Comparing lengths Comparing lengths Measuring length 	1.9 Multiplication and division Counting in 10s Making equal groups Making arrays Builds on 1.6 1.10 Fractions The whole A half A quarter Foundation for future topics. 1.11 Geometry (Position and Direction) Describing turns Describing position Building on knowledge in Reception. 1.12 Measurement (Money) Recognising coins Recognising notes Counting coins Foundation for future topics. 1.13 Measurement (Time) Time to the hour

		Introducing the ruler Building on knowledge in Reception. 1.8 Mass and volume Measuring mass Comparing mass Introducing capacity and volume Building on knowledge in Reception.	 Time to the half hour Writing time Comparing time Foundation for future topics.
Year 2	2.1 Place Value Representing numbers to 100 Part-whole model - tens and ones Count in 3s Comparing objects and numbers Ordering objects and numbers Builds on 1.6 2.2 Addition and subtraction Bonds to 100 (tens) Add and subtract 1 10 more and 10 less Add and subtracting 2-digit and 1-digit numbers Adding and subtracting a 2-digit number and a 2-digit number Builds on 1.2 and 1.5 2.3 Measurement (Money) Counting notes and coins Comparing money Find the total Find the difference Find change Builds on 1.12 2.4 Multiplication and division Recap from 1.8 to prepare for 2.5	2.5 Multiplication and division	2.9 Measurement (length and height) • Measure length (cm . m) • Compare lengths • Order lengths • Four operations with length Builds on 1.7 and 2.2 and 2.5 2.10 Geometry (Position and direction) • Describing movement • Describing turns • Movements and turns Builds on 1.11 2.11 Measurement (Time) • O'clock and half past • Quarter past and quarter to • Telling time to 5 minutes • Hours and days • Finding and comparing durations Builds on 1.13 2.12 Measurement (Mass, capacity and temperature) • Comparing mass • Mass in kg and g • Litres and millilitres • Temperature Builds on 1.8

Year 3 3.1 Place Value	3.4 Multiplication and division Multiply and divide 2-digit and 1-digit numbers Divide 100 into 2,4,5 and 10 equal parts Remainders Scaling Builds on 3.3 3.5 Measurement (Money) Converting pounds and pence Add money Subtract money Give change Foundation for future topics. 3.6 Statistics Bar charts Tables Builds on 2.6 3.7 Measurement (Length and perimeter) Equivalent lengths (m and cm) Adding and subtracting lengths	3.9 Fractions The whole Tenths Fractions on a number line Fractions of objects Equivalent fractions Comparing fractions Ordering fractions Adding and subtracting fractions with the same denominator Builds on 3.8 3.10 Measurement (Time) Months and years Hours in a day Time to 5 minutes and the minute A.m and P.m 24-hour clock Measuring time in seconds Builds on 2.11 3.11 Geometry (Properties of shape)
	 Adding and subtracting lengths Measure and calculate perimeter Builds on 2.9 3.8 Fractions Recap from 2.8 to prepare for 3.9 4.5 Multiplication and division 11 and 12 times-table Multiply 3 numbers Efficient multiplication Multiplication written methods Multiply 2-digit by 1-digit Multiply 3-digits by 1-digit Divide 2-digit by 1-digit Divide 2-digits by 1-digit Divide 3-digits by 1-digit 	 3.11 Geometry (Properties of shape) Turns and angles Right angles Horizontal and vertical Parallel and perpendicular Builds on 2.7 and 2.10 3.12 Measurement (Mass and capacity) Measuring and comparing mass and capacity Builds on 2.12 4.9 Decimals Write, compare and order decimals Round decimals Halves and quarters Builds on 4.8 4.10 Measurement (Money) Ordering money Estimating money Estimating money Builds on 3.5 4.11 Measurement (Time) Hours, minutes and seconds Years, months, weeks and days Analogue to digital Builds on 3.10

4	 Efficient subtraction Estimate answers Builds on 3.2 I.3 Measurement (Length and perimeter) Kilometres Perimeter of a rectangle Perimeter of rectilinear shapes Builds on 3.7 I.4 Multiplication and division Multiple and divide by 10 and 100 Multiple by 1 and 0 Divide by 1 and itself 6, 7 and 9 time-tables and division facts Builds on 3.4 I.13 Geometry (Properties of shape) Identify angles Triangles Quadrilaterals Symmetry Builds on 3.11 	 Comparing area Builds on 3.7 and 4.3 4.7 Fractions Equivalent fractions Fractions greater than 1 Count in fractions Add 2 or more fractions Subtract 2 fractions Subtract fractions from the whole Fractions of a quantity Builds on 3.9 4.8 Decimals Tenths as decimals Tenths on a number line Divide 1 or 2-digits by 10 Hundredths Divide 1 or 2 digits by 100 Foundation for future topics. 	 4.12 Statistics Interpret charts Line graphs
Year 5	S.1 Place Value Numbers to 10,000 Rounding to 10,100 and 1,000 Numbers to 100,000 and a million Negative numbers Roman numerals Builds on 4.1 S.2 Addition and subtraction Add whole numbers with more than 4-digits (formal methods) Subtract whole numbers with more than 4-digits (formal methods) Round to estimate Inverse operations Builds on 4.2 S.3 Statistics Line graphs Tables Two-way tables Timetables Builds on 4.12	 5.6 Multiplication and division Multiple 4-digits by 1-digit Multiply 2, 3 and 4-digits by 2-digits Divide 4-digits by 1-digit Builds on 5.4 5.7 Fractions Equivalent fractions Improper to mixed fractions Compare and order fractions Add and subtract fractions Multiply unit fractions Fractions of an amount Builds on 4.7 5.8 Decimals and percentages Decimals to 2 d.p Thousandths Rounding decimals Fraction, decimal and percentage equivalents Builds on 4.9 	5.9 Decimals Adding and subtracting decimals Multiplying decimals by 10,100 and 1,000 Dividing decimals by 10, 100, 1,000 Builds on 4.9 5.10 Geometry (Position and direction) Measuring angles Using protractors Angles on a straight line Angles around a point Builds on 4.14 5.11 Measurement (Converting units) Kgs and Kms Imperial and metric units Converting units of time Timetables Builds on 4.3 5.12 Measurement (Volume) Comparing volume Estimating volume Estimating capacity

5.4 Multiplication and division • Factors and multiples • Common Fractions • Prime numbers • Square numbers • Cube numbers • Multiple and divide by 10, 100 and 1,000 Builds on 4.5 5.5 Measurement (Perimeter and area) • Measuring and calculating perimeter • Area of rectangles • Area of compound and irregular shapes		Builds on 3.12
Year 6 6.1 Place Value Numbers to 10 million Comparing and ordering Rounding Negative numbers Builds on 5.1 6.2 Four operations Consolidation of prior learning Short and long division Common factors and multiples Primes to 100 Order of operations Builds on 5.2 and 5.6 6.3 Fractions Simplifying fractions Comparing and ordering fractions Adding and subtracting fractions Multiply and dividing fractions by integers Fractions of amounts Builds on 5.7 6.4 Geometry (Position and direction) First quadrant Four quadrants Translation Reflection Builds on 5.10	6.5 Decimals Three decimals places Multiply and divide by 10,100 and 1,000 Decimals as fractions Fractions to decimals Builds on 5.8 and 6.3 6.6 Percentages Fraction, decimal and percentage equivalent Percentages of amounts Builds on 5.8 and 6.3 6.7 Algebra Forming expressions Substitution Formulae Forming equations Solving two-step equations Foundation for future topics. 6.8 Measurement (Converting units) Metric measures Converting and calculating metric measures Miles and Kilometres Imperial measures Builds on 5.11 6.9 Measurement (Perimeter, area and volume) Area and perimeter Area of triangles Volume of a cuboid Builds on 5.5 and 5.12 6.10 Ratio Calculating ratio	6.11 Statistics Line graphs Circles Pie charts The mean Builds on 5.3 6.12 Geometry (Properties of shape) Protractors Vertically opposite angles Angles in a triangle Angles in regular polygons Builds on 4.14

	 Calculating scale factors Foundation for future topics. 	