

RADDLEBARN PRIMARY SCHOOL SUBJECT OVERVIEW IN MATHS



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	Context/ Resources
Nursery	Develop fast recogning Recite number past ! Say one number for Know that the last number Link numerals and an Experiment with their Solve real world mat Compare quantities until Talk about and exploration corners, 'straight,' Inderstand position Describe a familiar recognition in the same past of the same past	tion of up to 3 objects, we solve them in order: 1,2,3 umber reached when cours' up to 5. mounts: for example, show the solve that the solve	owing the right number of s as well as numerals. numbers up to 5. an', 'fewer than'. r example, circles, rectangor example. "The bag is un	em individually ('subitises tells you how many objects to match the rules, triangles and cubi	there are in total ('carc numeral, up to 5. oids) using informal an	d mathematical language: 'sides',	
Reception	Discuss routes and locations, using words like 'in front of' and 'behind'. Throughout the year children in Reception will be learning to Count objects, actions and sounds. Subitise. Link the number symbol (numeral) with its cardinal number value. Count beyond ten. Compare numbers. Understand the 'one more than/one less than' relationship between consecutive numbers. Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0–5 and some to 10. Select, rotate and manipulate shapes to develop spatial reasoning skills. Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Continue, copy and create repeating patterns. Compare length, weight and capacity. Early Learning Goals — Number. Numerical Patterns.						
Year 1	Number: Place Value (within 10) Sort objects Count objects Count objects from a larger group	Number: Addition and Subtraction Find a part Subtraction - find a part Fact families - the eight facts Subtraction - take away/crossing out (How	Number: Place Value (within 20) Count forward/backwards number 20 Numbers 11-20 Tens and Ones Count one more/less	Number: Place value (within 50) Compare/order objects/numbers 50 Count in 2s Count in 5s	Number: Multiplication and division Count in 2s Count in 5s Count in 10s Make equal groups	Geometry: Position and direction Describe turns Describe positions Number: Place Value (within 100) Counting forward and backwards in 100 Partitioning numbers	

	Represent objects Recognise numbers as words Count on from any number 1 more Count backwards within 10 1 less Compare groups by matching Fewer, more, same Less than, greater than, equal to Compare numbers Order objects and numbers The number line Number: Addition and Subtraction (within 10) Introduce parts and wholes Part-whole model Write number sentences Fact families - addition facts Number bonds within 10 Systematic number bonds to 10 Addition - add together Addition problems	many left?) Subtraction - take away (How many left?) Subtraction on a number line Add or subtract 1 or 2 Geometry: Shape Recognise and name 3D Shapes Sort 3D Shapes Recognise and name 2D Shapes Sort 2D Shapes Patterns with 3D Shapes/2D Shapes	Compare numbers Order groups objects/numbers Number: Addition and Subtraction (within 20) Add by counting on Find and make number bonds Add by making 10 Subtraction not crossing 10, crossing 10 Related facts Compare number sentences Number: Place value (within 50) Number to 50 Tens and ones Represent numbers to 50 One More One Less	Measurement (Length and height) Compare lengths and heights Measure length Measure height Measurement (Weight and volume) Introduce weight and mass Measure mass Compare mass Introduce capacity and volume Measure capacity Compare capacity	Add equal groups Make arrays Make doubles Make equal groups (grouping/sharing) Number: Fractions Find a half Find a quarter	Comparing numbers Ordering numbers One more one less Measurement: Money Recognising coins Recognising notes Comparing in coins Measurement: Time Before/after Dates Times to the hour Times to half hour Writing in time Comparing time	
Year 2	Number: Place value Numbers to 20 Count objects to 100 by making 10s Recognise tens and ones Use a place value chart Partition numbers to 100 Write numbers to 100 in words Flexibly partition numbers to 100 Write numbers to 100 in expanded form 10s	Number: Addition and subtraction Subtract a 1-digit number from a 2-digit number (across a 10) 10 more, 10 less Add and subtract 10s Add two 2-digit numbers (not across a 10) Add two 2-digit numbers (across a 10) Subtract two 2-digit numbers (not across a 10) Subtract two 2-digit numbers (across a 10) Mixed addition and	Measurement: Money Recognising coins and notes Count money p £ notes and coins Select money Make the same amount Compare money Find the total Find the difference Find change Two step problem	Geometry: Properties of shape Recognise 2D/3D shapes Count side/vertices on 2D Shapes Draws 2D Shapes Lines of symmetry Sort 2D Shapes Make patterns with 2D shapes Count faces, edges and vertices on 3D Shapes Sort 3D Shapes	Fractions Make equal parts Recognise and find half/quarter/third Unit fractions Non unit fractions Equivalence ½ 2/4 Find ¾ Count in fractions Statistics Make tally charts Draw pictograms (1:1, 2, 5, 10) Interpret pictograms (1:1, 2, 5, 10)	Geometry: Position and direction Describe position Describe movement and turns Make patterns and shapes Measurement: Time Telling time to hour/half hour O clock and half past Quarter past/quarter to Telling time to 5mins Writing time Hours and days Find/compare durations of time	

on the number li 100 10s and 1s the number line 100 Estimate numbers on number line Com objects Compa numbers Ord objects and num Count in 2s, 5s 10s Count in 3s Number: Addi and subtractic Bonds to 10 F families – addit and subtractic bonds within 3 Related facts Bo to 100 (tens) A and subtract 1s by making 10 A three 1-digit num Add to the next Add across a Subtract from a	number sentences Missing number problems a manager are are are are are are are are are a	Number: Multiplication and division Make equal groups Add equal groups Make arrays Recognise equal groups Add equal groups Add equal groups Multiplication sentences (x symbol) Multiplication (pictures) Use arrays Make doubles 2, 5, 10 times tables Make equal groups (sharing/grouping) Divide by 2 Odd and even Divide by 5, 10	Make patterns with 3D Shapes Measurement: Mass, capacity, temperature Introduce weight and mass Measure mass Compare mass Measure mass g/kg Introduce capacity and volume Measure capacity Compare volume Millilitres/litres Temperature	Measurement: Height and length Compare lengths and heights Measure lengths (cm/m) Compare lengths Order lengths Four operations with lengths		
Year 3 Number: Pla value Represent numl to 100 Tens and ones u addition Represent numl to 1000 100s, 10s, 1s Number line to 1 Find 1, 10, 10 more/less Compare objects numbers to 100 Order number Count in 50s Number: Addi and subtractic Add and subtractic Add/subtracts:	Add/subtract two digit and 3 digit numbers — crossing 10/100 Add 32 digit numbers crossing/not crossing 10 Subtract 3 digit number from 3 digit number no exchange/exchange Number: Multiplication and division Subtract 3 digit number from 3 digit number no exchange/exchange Number: Multiplication and division Multiplication – equal groups Multiplication symbol Using arrays 2 and 5 times table Make equal groups — sharing	Number: Multiplication and division Consolidate 2, 4, 8 times tables Comparing statements Related calculations Multiply 2 digit by 1 digit Divide by 2 digit by 1 digit (~3 lessons) Scaling How many ways? Measurement: Money Count money (£ and pence) Convert pounds and pence Add money Subtract money Give change Statistics Make tally charts Draw pictograms	Measurement: Length and perimeter Measure length (m) Equivalent lengths – (m & cm) and (mm and cm) Compare lengths Add lengths Subtract lengths Measure perimeter Calculate perimeter Measure length Number: Fractions Make equal parts Recognise a half Find a half Recognise a quarter Find a quarter Recognise a third Find a third Unit fractions	Number: Fractions Making the whole Tenths Count in tenths Tenths as decimals Fractions on number line Fraction of set of objects (~3 lessons) Equivalent fractions (~3 lessons) Compare fractions Order fractions Add/subtract fractions Measurement: Time O'clock and half past Quarter past and quarter to Months and years Hours in a day Telling the time to 5 mins	Geometry: Properties of shape Turns and angles Right angles Compare angles Draw accurately Horizontal vertical Parallel and perpendicular Recognise and describe 2D 3D shapes Make 3D shapes Measurement: Mass and capacity Compare mass Measure mass Add and subtract mass Compare volume Measure capacity Compare capacity Add and subtract capacity Temperature	

Add and subtract 3 digit by 1digit – not crossing 10 Add 2/3 digit and 1 digit numbers crossing 10 Subtract 1 digit from 2/3 digit number – crossing 10 Add and subtract 3 digit and 2 digit not crossing 100/ crossing 100 Subtract 2 digit from 3 digit number Add and subtract 100s Spot the pattern	Divide by 2, 5, 10 Multiply by 3 Divide by 3 3 times table Multiply/divide by 4 The 4 times table Multiply/divide by 8 The 8 times table	Interpret pictograms Pictograms Bar charts Tables Number: Multiplication	Non-unit fractions Equivalence ½ 2/4 Count in fractions	Telling time to a minute Using am and pm 24 hour clock Finding the duration Comparing duration Start end times Measuring time in seconds		
Year 4 Number: Place value Represent numbers to 1000 100, 10s, 1s Number line to 1000 Round the nearest 10/100 Count in 1000s, 100s, 10s, 1s Partitioning Number line to 10,000 Find 1, 10, 100, 1000 more/less Compare and order numbers Round to nearest 1000 Count in 25s Negative numbers Roman numerals to 100 Number: Addition and subtraction Add/subtract 1, 10s, 100s & 1000s Add two 3 and 4 digit numbers (not crossing 10/100 - no exchange)	Measurement: area What is area? Counting squares Making shapes Comparing area Number: Multiplication and division Multiply by 10/100 Divide by 10/100 Multiply by 1/0 Divide by 1 and itself Multiply and divide by 3, 6, 9, 7 The 3, 6, 9, 7 times table and division facts	and division 11 and 12 times tables Multiply 3 numbers Factor pairs Efficient multiplication Written methods Multiply 2 and 3 digits by 1 digit Divide 2 and 3 digits by 1 digit Correspondence problems Measurement: Length and perimeter Equivalent lengths m and cm & cm/mm Kilometres Add/subtract lengths Measure perimeter Perimeter on a grid Perimeter of rectangle Perimeter of rectilinear shapes Number: Fractions Unit and non-unit fractions What is a fraction? Tenths Count in tenths	Number: Fractions Add fractions Add 2 or more fractions Subtract fractions Subtract 2 fractions Subtract vhole amounts Fractions of set of objects Calculate fractions of a quantity Problem solving Number: Decimals Recognise tenths and hundredths Tenths as decimals Tenths on a place value grid Tenths on a number line Divide 1 digit by 0 Divide 2 digits by 10 Hundredths as decimals Hundredths on place value grid	Number: Decimals Bonds to 100 and 100 Make a whole Write decimals Compare decimals Order decimals Round decimals Halves and quarters Measurement: Money Pounds and pence Ordering money Estimating money Convert pounds and pence Add money Subtract money Find change Four operations Measurement: Time Telling time to 5 minutes Telling time to 5 minute Using am and pm 24 hour clock Hours minutes and seconds	Statistics Interpret charts Comparison sum and difference Introducing line graphs Line graphs Line graphs Geometry: Properties of shape Turns and angles Right angles Compare angles Identify angles Compare and order angles Recognise and describe 2D Triangles Quadrilaterals Horizontal and vertical Lines of symmetry Complete symmetric figure Geometry: Position and direction Describe position Draw on a grid Move on a grid Describe movement on a grid	

	digit numbers crossing 10/100 (1 exchange/more than one) Subtract 3 and 4 digit from 3 and 4 digit - inc exchange		Equivalent fractions Fractions greater than 1 Count in fractions	Divide 1 and 2 digits by 100 Number: Decimal	and days Analogue to digital 12hr/24 hour		
Year 5	Number: Place value 1000s 100s 10s 1s Rounding to nearest 10/100/1000 (within 100,000) Numbers to 100,000 Counting in 10s, 100s, 1000s, 10,000s, 100,000s Compare, order and round numbers to a million Negative numbers Roman numerals to 1000 and 10,000 Number: Addition and subtraction Adding and subtracting two 4- digit numbers - one exchange/more than one Add/subtract whole numbers (more than 4 digits) Round to estimate Inverse operations Multi-step problems	Number: Multiplication and division Multiples Factors Common factors Prime numbers Square/cube numbers Multiply and divide by 10, 100, 1000 Multiples of 10, 100, 1000 Fractions What is a fraction? Equivalent fractions Fractions greater than 1 Improper fractions to mixed numbers (vice versa) Number sequences Compare and order fractions less than 1 Compare and order fractions greater than 1 Add and subtract fractions Add fractions within 1 Add 3 or more fractions Add mixed numbers Subtract fractions Subtract fractions Subtract mixed numbers Subtract – breaking the whole Subtract 2 mixed numbers	Number: Multiplication and division Multiply 2, 3 and 4-digits by 1-digit Multiply 2-digits (area model) Multiply 2, 3 and 4-digits by 2-digits Divide 2-digits by 1-digit Divide 3 and 4-digits by 1-digit Divide with remainders Fractions Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers Calculate fractions of a quantity Fraction of an amount Using fractions as operators	and percentages Decimals up to 2 d.p. Decimals as fractions Understand thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages Percentages Percentages as fractions and decimals Equivalent F.D.P. Measurement: Perimeter and area Measure perimeter Perimeter on a grid Perimeter of rectangles Perimeter of rectilinear shapes Calculate perimeter Counting squares Area of rectangles & compound shapes Area of irregular shapes Statistics: Interpret charts Comparison sum and difference	Geometry: Properties of shape Identify angles Compare and order angles Measure angles in degrees Measuring with a protractor Drawing lines and angles accurately Calculating angles on a straight line and around a point Triangles Quadrilaterals Calculating lengths/angles in shapes Regular and irregular polygons Reasoning about 3-D shapes Geometry: Position and direction Describe position Draw on a grid Position in the first quadrant Translation (inc with coordinates) Lines of symmetry Complete a symmetric figure Reflection (inc with coordinates)	Numbers: Decimals Adding and subtracting decimals within 1 Complements to 1 Adding decimals – crossing the whole Adding and subtracting decimals (same number of decimal places) Adding and subtracting decimals (different number of decimal places) Adding and subtracting wholes and decimals Decimal sequences Multiplying and dividing decimals by 10, 100 and 1,000 Measurement: Converting units Kilometres/Kilograms Millimetres/Millilitres Metric/imperial units Converting units of time Timetables Measurement: Volume Compare volume Estimate volume and capacity	

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Voor 6	Number: Place	Number: Addition,	Number: Ratio	Number:	Geometry:	1	1
Year 6	value	subtraction,	Using ratio language	Percentages	Properties of	Į.	1
	Numbers to 10,000	multiplication and	Ratio and fractions	Understand	shape	1	1
	Numbers to 100,000	division	Introducing the ratio	percentages	Measure with a	Consolidation and themed projects	1
	Numbers to a million	Factors and common	symbol	Fractions to	protractor	White Rose Bakery	1
	Numbers to 10	factors	Calculating ratio	percentages	Draw lines and angles	Theme Park Maths	1
	million	Common multiples	Using scale factors	Equivalent FDP	accurately	THEME PAIK MAUIS	1
	Compare and order	Primes to 100	Calculating scale factors	Order FDP	Introduce angles	1	1
	any number	Squares and cubes	Ratio and proportion	Percentage of an	Angles on a straight	1	1
	Round numbers to	BODMAS	problems	amount	line	1	1
	10, 100 and 1000	Mental calculations and	, J	Percentages –	Angles around a	1	1
	Round any number	estimation	Number: Algebra	missing values	point	Į.	1
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nber: Addition, subtraction, subtraction, subtraction and division I/subtract whole nbers with more than 4 digits erse operations lit step addition ad subtraction Add subtract integers ciply 4 digits by 1 digit Itiply 2, 3 and 4 its by 2 digits ide 4 digits by 1 digits fide 4 digits by 1 digit (inc with remainders) hort division Division using factors	Add/subtract whole numbers with more than 4 digits Inverse operations Multi step addition and subtraction Add and subtract integers Multiply 4 digits by 1 digit Multiply 2, 3 and 4 digits by 2 digits Divide 4 digits by 1 digit (inc with remainders) Short division Division using	Reason for known facts Number: Fractions Equivalent fractions Simplify fractions Improper fractions to mixed numbers (vice versa) Fractions on a number line Compare and order Add and subtract fractions and mixed numbers Mixed add/subtract Multiply fractions by integers & fractions Divide fractions by integers 4 rules - fractions Fraction of amount Measurement: Converting units Metric measures Convert metric measures Calculate with metric measures Miles and kilometres	Find a rule — one step Find a rule — two step Forming expressions Substitution Formulae Forming equations Solve simple one-step equations Find pairs of values Enumerate possibilities Number: Decimals Decimals up to 2 decimal places Understand thousandths Three decimal places Multiply and divide by 10, 100 and 1,000 Multiply and divide decimals by integers Division to solve problems Decimals as fractions Fractions to decimals	Measurement: Perimeter, area and volume Shapes – same area Area and perimeter Area of a triangle Area of parallelogram What is volume? Volume – counting cubes Volume of a cuboid 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	Calculate angles Vertically opposite angles Angles in a triangle — special cases Angles in a triangle — missing angles Angles in special quadrilaterals Angles in regular polygons Draw shapes accurately Draw nets of 3-D shapes Geometry: position and direction The first quadrant Four quadrants Translations Reflections	
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Imperial measures