



St John's Yearly Overview – Maths

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Getting to know you Just like me Number: - Match & sort based on attributes (colour, size, shape, type etc.) - Compare amounts (more/less/fewer) Measure, shape & spatial thinking: - Compare size, mass & capacity (big/little/large/small) – use of balance scales - Exploring pattern (create simple repeating pattern)	It's me 1, 2, 3! Number: - Representing, comparing & composition of 1, 2 & 3 - Match numerals to names & quantities up to 4 - Mark making of 1, 2 & 3 - One more/less - Count by touching objects (without looking – abstraction principle) Measure, shape & spatial thinking: - Circles & triangles (curved/straight sides) - Positional language Light & dark Number: - Count to & back from 4	Alive in 5 Number: - Introducing zero - Quantities can be more/less than or the same as another quantity - Comparing numbers to 5 (more/less) - Composition of 4 & 5 Measure, shape & spatial thinking: - Compare mass & capacity (2) - Estimate which is heavy before weighing (heavy, heavier than, heaviest, lighter, lighter than, lightest) - Explore capacity using different materials (sand, water, rice etc.) - Balancing number shapes (Numicon) using balance scales	Building 9 & 10 Number: - Counting to 9 & 10 - Represent 9 & 10 in different ways - Comparing numbers to 10 by lining up objects - Number bonds to 10 Measure, shape & spatial thinking: - Construct 3D shapes - Introduced to names of 3D shapes and explore similarities & differences - Sort shapes - Match prints to shapes - Pattern (2) – more complex patterns which use items more than once (e.g. ABB, AABB, AABBB)	To 20 and beyond Number: - Consolidate key skills (subitising, counting, composition, sorting & matching, comparing & ordering) - Building numbers beyond 10 - Counting patterns beyond 10 Spatial reasoning: - Spatial reasoning (1) – geoboards & elastic bands - Match, rotate & manipulate shapes using block patterns First, then, now Number: - Adding more - Taking away - Use of first/then/now stories to support Spatial reasoning: - Spatial reasoning (2) – combine &	Find my pattern Number: - Doubling (use of doubles and non-doubles) - Sharing & grouping - Odd/even Spatial reasoning: - Spatial reasoning (3) – replicate simple constructions, models, places (real or from stories) - Visualise areas from unusual perspectives (photo taken from under table for e.g.) - Build models and arrangements On the move Number: - Deepening understanding – problem solving,

		- Match numerals to names & quantities up to 5 - Cardinal principle (final number read is the amount) - Representing numbers to 5 - One more/less Measure, shape & spatial thinking: - Shapes with 4 sides (sides/corners) - Time (night, day, morning, afternoon, today, tomorrow) - Calendar (birthdays)	Growing 6, 7, 8 Number: - Counting to 6, 7 & 8 - Represent 6, 7 & 8 in different ways - Order & compare, noticing one more/less - Making pairs – introduce odd numbers - Combining 2 groups to find out how many altogether Measure, shape & spatial thinking: - Length & height (tall, short, longer, shorter, wider, narrower) - Time – describing events (now, before, later, soon, next)		separate to make new shapes - Build different shapes & explore different arrangements (tangrams) - Compose & decompose	critical thinking (could be linked to familiar stories or come from children's suggestions, real problems as they arise in play etc.) - Patterns & relationships - explore & investigate relationships between numbers & shapes (how many short blocks make a long block for e.g.) Spatial reasoning: - Spatial reasoning (4) – maps, mazes
Year 1	Number: Place value (within 10) - Sort based on attributes (colour, size, shape – same/different) - Count to 10 fluently (brings in different counting principles: one-to-one, cardinal, abstraction etc.)	Number: Addition & subtraction (within 10) - Parts/wholes - Number bonds within 10 - Add/subtract Geometry: Shape - Recognise, name & sort 3D shapes	Number: Place value (within 20) - Count, read & write numbers to 20 (numerals & words) - Represent numbers 11-20 - Tens & ones - One more/less - Compare groups	Number: Place value (within 50) - Count forwards & backwards within 50 - Represent numbers to 50 - One more/less - Compare & order within 50 - Count in 2s & 5s Measurement: Length & height - Comparing length & height	Number: Multiplication & division - Count in 2s & 5s up to 50 - Count in 10s - Make & add equal groups - Arrays - Doubles - Grouping/sharing	Number: Place value (within 100) - Count to 100 - Count forwards & backwards within 100 - Partitioning, comparing & ordering within 100 - One more/less

	- Represent & match numerals to objects - Recognise numerals as words - Count forwards & backwards within 10 1 more/less - Compare by matching (is there enough buckets for each person, for e.g.) $< > =$	- Sort 3D shapes - Patterns with 2D & 3D shapes	- Order groups & numbers Number: Addition & subtraction (within 20) - Add making 10 - Subtraction crossing 10 - Related facts	- Using a ruler (cm) Measurement: Mass & volume - Measuring mass using cubes - Comparing mass - Measuring capacity using glasses of water - Comparing capacity	Number: Fractions - Finding halves & quarters Geometry: Position and direction - Describing turns (half, full, three-quarters) - Describing position (left, right, forwards, backwards, top, in between, bottom, above, below)	- Compare any two numbers Measurement: Money - Recognise coins and notes - Count in coins Measurement: Time - Before/after - Dates - Time to hour & half house - Writing time - Comparing time (faster, slower, earlier, later)
Year 2	Number: Place value - Revisit numbers to 20 and counting in 10s to 100 - Compare objects/numbers - Read, write & partition to 100 - Order objects & numbers - Counting in 2s, 5s, 10s & 3s	Number: Addition & Subtraction - Bonds to 100 (tens) - Related facts (2 + 3 = 5 so 20 + 30 = 50) - Add by making 10 - Add/subtract across & from a 10 - Subtraction 1-digit from 2-digits - Add/subtract 2-digit numbers - Estimate Geometry: Shape	Measurement: Money - Count coins & notes - Select money - Make the same amount - Compare money - Find the total, difference, change - Problems Number: Multiplication & Division - Recognise, make & add equal groups (repeated addition)	Measurement: Length & height - Measure length in cm & m - Compare and order lengths - Problems involving length (four operations) Measurement: Mass, capacity & temperature - Measure and compare mass, capacity & volume - Use units of millilitres & litres - Introduction to temperature & degrees Centigrade	Statistics - Make tally charts - Draw & interpret pictograms (including symbols representing 2, 5 & 10) - Draw block diagrams (similar to bar charts) Number: Fractions - Make equal parts - Recognise & find a half, quarter, third & three-quarters - Unit & non-unit fractions - Recognise & explore equivalence of two-quarters & one-half	Problem solving Measurement: Time - O'clock, quarter past/to, half past - Telling time to 5 minutes - Hours & days - Find & compare durations of time

		- Sides, faces, vertices on 2D/3D shapes - Lines of symmetry - Sort 2D shapes - Patterns with 2D & 3D shapes	- Understand and use the multiplication symbol - Explore arrays (commutative law) 2, 5 & 10 times-table - Divide by sharing into equal groups - Divide by grouping - Divide by 2, 5 & 10		- Count in halves, quarters & thirds Geometry: Position & direction - Describe movement in a straight line (forwards, backwards, up, down, left, right) - Describe turns (full, half, quarter, three-quarter, clockwise, anti-clockwise) - Make patterns with shapes	
Year 3	Number: Place value - Represent & partition to 1,000 - Find 10, 100 & 1,000 more/less - Compare & order to 1,000 - Count in 50s Number: Addition & subtraction - Add two numbers (across 100) - Add 2-digit & 3-digit numbers - Subtract 2-digit from 3-digits - Inverse	Number: Multiplication & division A - Sharing & grouping - Multiply & divide by 3, 4 & 8 3 times-table 2, 4 & 8 times-table	Number: Multiplication & division B - Related calculations ($4 \times 30 \rightarrow 4 \times 30$) - Multiply 2-digits by 1-digit (repeated addition; explore column multiplication alongside concrete representations) - Divide 2-digits by 1-digit (partitioning into tens and ones, then sharing into equal groups) - Introduction to scaling (3 times as many boys as girls)	Number: Fractions A - Recapping work from Year 2 Measurement: Mass and capacity - Reading scales (kg & g) - Comparing mass - Add/subtract mass - Reading scales for capacity (l & ml) - Comparing capacity - Add/subtract capacity	Number: Fractions B - Making the whole ($\frac{1}{4} + \frac{1}{3} =$ one whole) - Tenths (as fractions, counting and as decimals) - Fractions on number line - Fractions of an amount (unit and non-unit) - Equivalent fractions - Comparing & ordering fractions - Adding/subtracting fractions (same denominator) Measurement: Money - Pounds & pence - Converting pounds & pence	Measurement: Time - Months/years - Hours in a day - Telling time to 5mins - Telling time to the minute - Am/pm 24-hour clock - Comparing durations - Measuring time in seconds Geometry: Shape - Turns, angles, right angles - Comparing angles - Drawing straight lines accurately

			Measurement: Length and perimeter - Measuring lines (cm/mm) - Equivalent lengths (m and cm; cm and mm) - Comparing lengths (m, cm, mm) - Add/subtract lengths - Introduction to perimeter		- Add/subtract money - Change	- Horizontal, vertical, parallel & perpendicular - Properties of 2D & 3D shapes Statistics - Bar charts - Tables
Year 4	Number: Place value - Represent & partition to 10,000 - Find 100, 1,000 & 10,000 more/less - Compare & order to 10,000 - Roman numerals - Round to 10, 100, 1,000 Number: Addition & subtraction - Add/subtract two 4-digit numbers	Measurement: Area - What is area? - Count squares - Make shapes & compare areas Number: Multiplication & division A - Multiply & divide by 6, 9 & 7 3, 6 & 9 times-table 2, 4 & 8 times-table 11 & 12 times-table	Number: Multiplication & division B - Multiply 3 numbers - Factor pairs - Efficient mental methods - Short multiplication (3-digits by 1-digit) - Divide 3-digit by 1-digit with remainders Measurement: Length and perimeter - Measuring in cm/mm - Equivalent lengths - Comparing lengths	Number: Fractions - Equivalent fractions (move onto proportional reasoning rather than just strip diagrams) - Fractions greater than 1 - Proper/improper fractions - Add 2 or more fractions - Subtract fractions from a whole - Fractions of a quantity (unit and non-unit fractions) - Begin to 'find the whole' Number: Decimals A - Tenths & hundredths - Tenths as decimals - Dividing 1 & 2 digits by 10, 100.	Number: Decimals B - Making the whole with tenths and hundredths - Writing decimals & understanding value of each digit - Comparing & ordering decimals (2 dp) - Round numbers with 1 dp to nearest whole $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$ as decimals Measurement: Money - Pounds & pence - Ordering & estimating money - Four operations Measurement: Time - Hours, minutes & seconds	Geometry: Shape - Identifying angles (acute, obtuse, right angle) - Compare & order - Types of triangles - Name & describe properties of quadrilaterals - Lines of symmetry Statistics - Interpret charts - Comparison, sum & difference - Line graphs

			- Add/subtract lengths - Measuring & calculating perimeter		- Years, months, weeks & days - Analogue to digital	Geometry: Position & direction - Introduction to co-ordinates - Introduction to translation on co-ordinates grid
Year 5	Number: Place value - Roman numerals to 1,000 - Read & write numbers to 1,000,000 - Find 100, 1,000, 10,000, 100,000 more/less - Partition, compare & order numbers to 1,000,000 - Round within 1,000,000 Number: Addition & subtraction - Add/subtract whole numbers with more than four digits - Multistep problems	Number: Multiplication & division A - Multiplies & common multiples - Factors & common factors - Prime, square & cube numbers - Multiply & divide by 10, 100 & 1,000 Number: Fractions A - Equivalent fractions - Convert improper fractions to mixed numbers and vice versa - Compare & order fractions less than and greater than 1 - Add & subtract fractions up to and greater than 1 - Add & subtract mixed numbers	Number: Multiplication & division B - Multiply 4-digits by 2-digit – area model and long multiplication - Divide 4-digits by 1-digit with remainders Number: Fractions B - Add & subtract fractions - Add & subtract mixed numbers - Multiply fractions by integers - Divide fractions by integers - Fractions of an amount - Making connection between fraction of/x amount (e.g. $\frac{1}{4}$ of 20 = $\frac{1}{4} \times 20$)	Number: Decimals & percentages - Decimals up to 2dp - Fraction, decimal equivalences - Thousandths as fractions/decimals - Ordering/comparing - Rounding to 1dp - Equivalent fractions/decimals/percentages Measurement: Area & perimeter - Measure perimeter - Calculate area and perimeter - Area of compound and irregular shapes Statistics - Read, interpret & draw line graphs - Tables & timetables	Geometry: Shape - Measuring angles - Drawing lines & angles correctly - Calculating angles in a straight line & around a point - Properties of 3D shape Geometry: Position & direction - Co-ordinates - Translation - Reflection Number: Decimals - Adding & subtracting decimals - Decimal sequences	Number: Negative numbers - Count through zero in ones/multiples - Compare/order negative numbers - Find the difference Measurement: Converting units - Using kilograms and kilometres - Using millimetres and millilitres - Metric units - Imperial units - Converting units of time - Timetables Measurement: Volume - Compare & estimate volume - Estimate capacity

Year 6	Number: Place value • Read & write numbers to 10,000,000 • Compare & order any integers • Round any integer • Multiply & divide by powers of 10 • Negative numbers Number: Addition, subtraction, multiplication & division • Add & subtract integers • Factors, multiples, primes, squares & cube numbers • Multiply a 4-digit number by a 2-digit • Short & long division • Order of operations • Reason from known facts	Number: Fractions A • Equivalent & simplifying fractions • Compare & order • Add & subtract fractions & mixed numbers Number: Fractions B • Multiply fractions by integers & by fractions • Divide a fraction by an integer • Find fraction of an amount Measurement: Converting units • Convert & calculate with metric measures • Miles & kilometres • Imperial measures	Number: Ratio • Calculating ratio • Using scale factors • Ratio & proportion Number: Algebra • Two-step function machines • Expressions • Substitution • Formulae • Two-step equations • Pairs of values (multiple solutions)	Number: Fractions, decimals & percentages • Equivalents • Converting between FDP • Ordering FDP • Finding % of a quantity Measurement: Area, perimeter & volume • Shapes with same area • Calculate area and perimeter of rectilinear shapes (shapes with straight lines) • Area of triangles & parallelograms • Calculating volume of cuboids Statistics • Read & interpret line graphs & pie charts • Draw line graphs & pie charts • Parts of a circle • The mean average	Geometry: Shape • Measure with a protractors • Vertically opposite angles • Angles in a triangle • Angles in special quadrilaterals (trapezium, parallelogram etc.) • Angles in regular polygons • Draw shapes accurately • Draw nets of 3D shapes	
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