



St Ann's R.C. Primary School – KS1 & KS2 Mathematics Overview

Our Maths curriculum is aligned to the Mathematics guidance: key stages 1 and 2 (2020)

https://assets.publishing.service.gov.uk/media/6140b7008fa8f503ba3dc8d1/Maths_guidance_KS_1_and_2.pdf

This publication provides non-statutory guidance from the Department for Education, produced to help teachers and schools make effective use of the National Curriculum to develop primary school pupils' mastery of mathematics.

The school follows the national Oak Academy scheme <https://www.thenational.academy/>. This is written to the DfE guidance and informed by the National Centre for Teaching Mathematics (NCTM) Curriculum Prioritisation Materials, in accordance with recognised best practice and approaches to teaching primary mathematics: <https://www.ncetm.org.uk/classroom-resources/cp-curriculum-prioritisation-in-primary-maths/>

The curriculum is sequenced towards enabling children to achieve developmental 'milestones' within specific strands of mathematics. The strands are colour coded throughout this document, and the milestones identified in the 'Ready to Progress' criteria.

Ready to Progress Strands:

NPV: Number and Place Value	NF: Number Facts	AS: Addition and Subtraction	MS: Multiplication	G: Geometry	F: Fractions	Other: part of the National Curriculum, but not included in the DfE 2020 guidance
-----------------------------	------------------	------------------------------	--------------------	-------------	--------------	---



St Ann's R.C. Primary School – KS1 & KS2 Mathematics Overview

Year 1 Oak Academy Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	Counting within 100							Comparing quantities – part whole relationships			Composition of numbers 0 – 5	
	Counting , recognising and comparing numbers 0 – 10			Counting to and from 20		Counting in tens – decade numbers	Pattern in counting from 20 – 100					
Spring Term	Recognise, compose and decompose and manipulate 2D and 3D shapes			Composition of numbers 6-10			Additive Structures			Addition and subtraction facts within 10		
							Addition		Addition and subtraction			
Summer Term	Addition and subtraction facts within 10	Composition of numbers 11 to 19		Numbers 0 to 20 in different contexts		Unitising and coin recognition Solving			Solving problems in a range of contexts		Position and direction including fractions of turns	Time: Sequencing events and telling the time to the hour and half hour
						Counting in 2s, 5s and 10s		Value of a set of coins				



St Ann's R.C. Primary School – KS1 & KS2 Mathematics Overview

Year 2 Oak Academy Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	<u>Numbers 10 to 100</u>				<u>Secure fluency and subtraction facts within 10</u>	<u>Calculating within 20</u>			<u>Adding and subtracting ones and tens to and from 2-digit numbers</u>			<u>Introduction to multiplication</u>
	Composition of multiples of 10		Counting and representing the numbers 20 99	Comparing, ordering and partitioning 2-digit numbers								Grouping objects in different ways and relating to multiplication
Spring Term	<u>Introduction to multiplication</u>						<u>Introduction to division structures</u>		<u>Shape: discuss and compare 2D and 3D shapes</u>		<u>Addition and subtraction of two 2 digit numbers</u>	
	Representing counting in 2s, 5s and 10s as the 2, 5 and 10 times tables		Representing counting in 5s as the 5 times table and link to the 10 times tables		Multiplying by 2, doubling and halving (factors and products)							
Summer Term	<u>Addition and subtraction of two 2 digit numbers (continued)</u>	<u>Money: recognise coins and use £ and p symbols</u>	<u>Fractions: identify equal parts and be familiar with halves, thirds and quarters</u>		<u>Time: write and tell the time to five minutes</u>	<u>Position and direction</u>		<u>Doubling, halving, quotative and partitive division</u>		<u>Sense of measure – capacity, volume and mass</u>		



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	<u>Review strategies for adding and subtracting across 10</u>		<u>Numbers to 1000</u>									
Securing place value to 100 and applying to addition and subtraction			Bridging 100: counting on and back in 10s, adding /subtracting multiples of 10	Measuring length and recording in tables		Representing 3-digit numbers, comparing and positioning on number lines			Measures: mass and capacity			
Spring Term	<u>Right angles</u>		<u>Manipulating the additive relationship and securing mental calculation</u>			<u>Column addition</u>		<u>2, 4 and 8 times tables: using times tables to solve problems</u>			<u>Column subtraction</u>	
			Informal and mental strategies for adding and subtracting two 3 digit numbers		Understanding additive relationships and apply them to rearrange equations							
Summer Term	<u>Unit fractions</u>					<u>Non-unit fractions</u>			<u>Parallel and perpendicular sides in polygons (and perimeter)</u>		<u>Time: Tell the time to the nearest minute and compare units of time</u>	
	Unit fractions as part of a whole		Identify parts and wholes in different contexts	Compare and order unit fractions	Calculate the value of a part (fractions as operators)	Non-unit fractions (introduction)		Composition of non-unit fractions: addition and subtraction				



St Ann's R.C. Primary School – KS1 & KS2 Mathematics Overview

Year 4 Oak Academy Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	<u>Review of column and addition subtraction</u>			<u>Numbers to 10,000</u>				<u>Perimeter</u>		<u>3, 6 and 9 times tables</u>		
				Secure place value to 1000: apply to addition and subtraction: multiples of 100	Calculation and conversion of measures	Comparing, ordering and rounding 4-digit numbers	Column addition and subtraction with 4-digit numbers			Represent counting in 3s and 6s as the 3x and 6x tables	Relationship between the 3 and 6x tables and tests for divisibility	Represent counting in 9s as the 9x table
Spring Term	<u>3x,6x & 9x</u>	<u>7 times table and patterns</u>		<u>Understanding and manipulating multiplicative relationships</u>					<u>Coordinates</u>		<u>Review of fractions</u>	<u>Fractions greater than 1</u>
	Relationship between the 3 and 9x tables	7 times table: odd and even patterns, square numbers and tests of divisibility		Understand and represent multiplicative structures	Apply the distributive law to multiplication	Understand what happens what happens when a number is multiplied or divided by 10 and 100						Composition of fractions greater than 1
Summer Term	<u>Fractions greater than 1</u>				<u>Properties of 2D and 3D shapes and symmetry</u>		<u>Money: apply efficient strategies when calculating with money</u>		<u>Time: Convert between 12 and 24 hour clocks: analogue and digital</u>	<u>Division with remainders</u>		
	Compare and order mixed numbers and position on a number line	Addition and subtraction of fractions and mixed numbers (within a whole)	Convert improper fractions to mixed numbers and vice versa	Efficient strategies for adding and subtracting mixed numbers (crossing a whole)								



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	Decimal Fractions					Negative numbers	Short multiplication and short division					
	Understand tenths as part of a whole, represent and calculate mentally	Compose and calculate with decimals including column addition and subtraction	Understand hundredths as parts of a whole and represent	Use knowledge of decimals to solve problems in different contexts: length			Multiplication by partitioning leading to short multiplication (2 by 1-digit)	Multiplication by partitioning leading to short multiplication (3 by 1-digit)	Division by partitioning leading to short division (2 and 3-digits by 1-digit)			
Spring Term	Area and Scaling					Calculating with decimal fractions	Factors, multiples and primes					
	Understand the concept of area	Link area of rectangles to multiplication		Compare and describe measurements using knowledge of multiplication and division			Understand the concept of volume	Multiply 3 or more numbers (commutative and associative laws)	Understand and use the concept of factorisation (square and prime numbers)	Use common factors and multiples to solve calculations efficiently		
Summer Term	Fractions							Converting units	Angles: compare, name, estimate and measure			
	Multiply a proper fraction by a whole number	Multiply improper fractions and mixed numbers by a whole number	Find unit and non-unit fractions of whole numbers exploring parts and wholes		Comparing fractions using equivalence and decimals							



St Ann's R.C. Primary School – KS1 & KS2 Mathematics Overview

Year 6 Oak Academy Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn Term	<u>Calculating using knowledge of structures</u>				<u>Multiples of 1000</u>		<u>Numbers up to 10,000,000</u>			<u>Multiplication and Division</u>	Assessment	
	Use knowledge of part-part-whole structure to solve additive problems	Use equivalence and compensation to simplify and solve addition calculations	Use equivalence and compensation to simplify and solve subtraction problems	Calculating using knowledge of equivalence in addition and subtraction	Composition and calculation: multiples of 1,000 up to 1,000,000		Understand place value within numbers with up to 7 digits	Order, compare and calculate with numbers up to 8 digits	Rounding and solving problems with numbers up to 7 digits	Using evidence to calculate		
Spring Term	<u>Multiplication and Division</u>		<u>Fractions (and percentages)</u>				<u>Ratio and Proportion</u>		<u>Draw, compose and decompose shapes</u>	<u>Area, perimeter, position and direction</u>	Assessment	
	Multiplying and dividing by 2-digit numbers		Addition and subtraction of fractions		Comparing fractions	Multiplication and division of fractions						Understanding percentages
Summer Term	<u>Solving problems with two unknowns</u>	<u>Statistics</u>	<u>Revision and National Testing Window</u>				<u>Solving problems with two unknowns</u>	<u>Order of Operations</u>	<u>Mean average</u>	Consolidation		
	Application of algebra						Application of algebra					