

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

	A1	A2	Sp1	Sp2	Su1	Su2
Nursery	<p><b>Number – counting</b> Joins in with number rhymes Rote count from 1</p> <p><b>Number - Counting objects</b> Use one to one correspondence when counting</p> <p><b>Shape, space, measures</b> Find pairs of shapes that are the same Finding shapes in the environment Making shape pictures and models Using language of size</p>	<p><b>Number – counting</b> Join in with number rhymes Reciting numbers in order Comparing quantities</p> <p><b>Shape, space and measures</b> Investigating 3D shapes, rolling not rolling Making shape models Time based events lunchtime, home time</p>	<p><b>Number –</b> Recite numbers to 10 Counting numbers in a se Representing numbers with fingers Number problems Counting with one to one correspondence up to 5 Comparing 2 groups that are the same</p> <p><b>Shape, space and measures</b> Shape hunts in environment Constructing shape models Comparing size and mass of objects Using language tallest, shortest, heaviest, lightest</p>	<p><b>Number –</b> Counting actions, sounds and objects Knowing number names in order Comparing two groups Rote count from 5 to 1</p> <p><b>Shape, space and measures</b> Using positional language Comparing volume of 2 containers Explore the mass of objects</p>	<p><b>Number –</b> Recognises some numerals Counting objects to 10 Rote counting to 20</p> <p><b>Shape, space and measures</b> Finding and naming some 2D and 3D shapes Comparing and ordering height and length in play</p>	<p><b>Number –</b> Recognises some numerals to 10 Counting actions or objects Finding more and less from a group Rote counting from any number</p> <p><b>Shape, space and measures</b> Ordering lengths and heights Join in with day of the week rhymes</p>
Reception	<p><b>Maths:</b> Number sense: 1-9 (linked with shapes)</p> <p><b>Number – counting:</b> Number Rhymes &amp; games – match number to word Rote count to 10 Use 1:1 correspondence</p>	<p><b>Maths:</b> Number sense: 1-9 (linked with shapes)</p> <p><b>Number – counting:</b> Understand the relationship between 'more' and 'fewer' Count up to 10 objects</p> <p><b>Number – Graphics:</b></p>	<p><b>Maths:</b> <b>Number – counting:</b> Rote count 1-20 forwards &amp; backwards Count up to 20 objects Count up to 20 pictures, marking each as they count</p>	<p><b>Maths:</b> <b>Number – counting:</b> Understand 'before' and 'after' and 'between' Rote count from any given number between 1-100</p>	<p><b>Maths:</b> <b>Number – counting:</b> Count on and back from a given number between 1 and 20, Say a number between two given numbers. Use the word zero to represent 'none'.</p>	<p><b>Maths:</b> <b>Number – counting:</b> count up to 20 objects, pictures, sounds and actions, make a sensible guess of quantities within 10. Partition a set of objects using part-part-whole</p>

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

<p><b>Number – Graphics:</b> Represents a given amount up to 9 using objects Explains marks &amp; symbols <b>Number – calculating:</b> Understands concept of addition Counts objects to 5 and combines two groups <b>Shape:</b> Create pictures with 2D shape <b>Measurement –</b> <b>Time:</b> Joins in with rhyme days of the week <b>Money:</b> Understands we need to pay for goods Items have different prices <b>Weight:</b> Explores balancing two items <b>Volume / Capacity:</b> Understands that volume indicates how much liquid is in a container. Use language of full and empty. Compare the volume of 2 of the same containers holding different amounts.</p>	<p>Talks about mathematical play and explains mathematical processes. <b>Number – calculating:</b> Understands concept of subtraction as removing one amount from within another <b>Shape:</b> Create pictures with 2D shapes <b>Measurement –</b> <b>Time:</b> Joins in with rhyme days of the week <b>Money:</b> Understands we need to pay for goods Items have different prices <b>Weight:</b> Explores balancing two items <b>Volume / Capacity:</b> Understands that volume indicates how much liquid is in a container. Use language of full and empty. Compare the volume of 2 of the same containers holding different amounts.</p>	<p>Partition the 'whole' set of objects between two groups – use the word 'part' to describe each partitioned set of objects Recognise numerals 10-15 Order numbers 0-20 <b>Number – Graphics:</b> Explain marks and symbols Represent a given amount up to 20 using objects <b>Number – calculating:</b> Label individual groups as 'parts' and a combined as 'whole' Understand that when 2 parts are combined they make the whole <b>Number – Fractions:</b> Understand that when an amount has been shared equally all parts are the same. Recognise by counting whether an amount has been shared equally or not. <b>Shape:</b></p>	<p>Place a given number of counters in a tens frame in different ways Use the words 'most' and 'fewest' Arrange a group of 11-19 objects into 1 group of 10 plus another group Understand numbers 11-19 as 10 and 1, 10 and 2... <b>Number – Graphics:</b> Recognise and identify numerals 0-20 Write numerals 0-5 and 6-9 <b>Number – calculating:</b> Understand one more, one fewer, two more, two fewer. Combine 2 groups of objects (total within 10) counting how many are there Add two single – digit numbers totalling up to 10, using practical equipment. <b>Number – Fractions:</b> Understand that doubling is adding the same number to itself Identify doubles up to 5</p>	<p>Order 3 or more sets of objects. Understand that 20 is the same as two groups of 10. Recognise repeating patterns in counting in a sequence <b>Number – recognition:</b> Select the numeral that represents a set of objects Order numerals to 20 <b>Number – Graphics:</b> Write numerals 0-20 <b>Number – calculating:</b> Understand subtraction – using whole and part model. Identify one less and two less than a given number. Subtract two single digit numbers totalling greater than 10. <b>Number – Fractions:</b> Understand that halving is sharing into two equal parts <b>Shape:</b> Talk about 2D and 3D shapes using mathematical language. Sort shapes according to their own criteria <b>Measurement –</b> <b>Time:</b> Understand and use the language – before, after, yesterday, today, tomorrow</p>
---	--	--	---	---

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

	<p><b>Distance:</b> Compares length, width &amp; height of 2 items. Uses language of taller and shorter</p> <p><b>Space:</b> Understands first and last to describe position Understands 'above', 'below', 'in front of', 'behind', 'next to', 'underneath'</p>	<p><b>Distance:</b> Compares length, width &amp; height of 2 items. Uses language of taller and shorter</p> <p><b>Space:</b> Understands first and last to describe position Understands 'above', 'below', 'in front of', 'behind', 'next to', 'underneath'</p>	<p>Understand terms – 'flat', 'straight', 'curved', 'solid', 'round', 'side', 'face', 'sharp', 'pointed', 'corner'.</p> <p>Recognise some shapes roll and others don't. Recognise and name 2D and 3D shapes</p> <p><b>Measurement –</b> <b>Time:</b> Understand words 'before' and 'after' and 'between' Name the days of the week</p> <p><b>Weight:</b> understand we measure the weight of an object by using a balance scale</p> <p><b>Volume / Capacity:</b> order a set of 3 identical container from least full to most full</p> <p><b>Distance:</b> Order a set of 3 items from shortest – longest, narrowest – widest and shortest - tallest</p> <p><b>Space:</b> Understand terms second, third, fourth and fifth. Use terms forwards and backwards correctly</p>	<p><b>Shape:</b> Find pairs of shapes that are identical, the same despite different sizes and different orientations. Continue a repeating pattern</p> <p><b>Measurement –</b> <b>Time:</b> Name the days of the week Use the word 'today', 'yesterday' and 'tomorrow'</p> <p><b>Money:</b> sort coins into sets Recognise 1p Identify properties of coins</p> <p><b>Weight:</b> use non-standard units which are not uniform to measure weight</p> <p><b>Volume / Capacity:</b> order a set of 3 identical container from least full to most full</p> <p><b>Distance:</b> Order a set of 3 items from shortest – longest, narrowest – widest and shortest - tallest</p>	<p>different ways and be different sizes. Name common 2D &amp; 3D shapes</p> <p><b>Measurement –</b> <b>Time:</b> Sequence two or three familiar events Know the names of the days of the week Say the days of the week in order. Talk about significant times of the day</p> <p><b>Money:</b> Understand that we need to pay for goods. Talk about the things they want to spend their money on</p> <p><b>Weight:</b> Understand the concept of the conversation of weight</p> <p><b>Space:</b> Understand and use positional language in everyday situations Understand and use ordinal numbers when describing position</p>	<p><b>Money:</b> Use 1p coins to pay for objects</p> <p><b>Weight:</b> Use uniform non-standard units to measure weight</p> <p><b>Space:</b> Understand and use the language of movement and direction. Describe &amp; recognise patterns made of objects, numbers and shapes, Sort objects and say what features they have in common.</p>
--	---	---	--	---	--	--

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

			Continue a repeating pattern	<b>Space:</b> Understand terms second, third, fourth and fifth. Use terms forwards and backwards correctly Continue a repeating pattern		
--	--	--	------------------------------	---	--	--

**KS1**

	A1	A2	Sp1	Sp2	Su1	Su2
Year 1	Number and Place value	Sequencing and Sorting	Number and Place value	Length and Mass/weight	Number and Place value	Time
	Number and Place value	Fractions	Mass/weight	Addition and Subtraction	Addition and Subtraction	Multiplication and Division
	Length and Mass/weight	Fractions Capacity and Volume	2-D and 3-D Shape	Fractions	Capacity and Volume	Subtraction - difference
	Addition and Subtraction	Money	Counting and Money	Position and Direction	Fractions	Measurement
	Addition and Subtraction	Time	Multiplication	Time	Position and Direction Time	Sorting
	2-D and 3-D shape	Assess and review week	Division	Assess and review week	2-D and 3-D shape	Assess and review week
Year 2	Number and Place value	Counting, multiplication and sorting	Number and Place value	Length and Mass/weight	Number and Place value and statistics	Time
	Number and Place value	Statistics	Mass/weight	Addition and subtraction	Addition and subtraction	Multiplication and division
	Length and Mass/weight	Fractions Capacity and volume	2-D and 3-D Shape	Fractions	Capacity and volume and temperature	Statistics including finding the difference

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

	Addition and subtraction	Money	Counting and money	Position and direction	Fractions	Measurement
	Addition and subtraction	Time	Multiplication	Time	Position and direction Time	Sorting
	2-D and 3-D shape	Assess and review week	Division	Assess and review week	2-D and 3-D shape	Assess and review week

## KS2

	A1	A2	Sp1	Sp2	Su1	Su2
Year 3	Place value	Counting Multiplication tables (3x, 4x)	Place value Mental addition and subtraction	2D and 3D shape incl. sorting	Multiplication facts (statistics)	Place value (measures)
	Place value and mental calculation	Written and mental multiplication	Fractions	Addition and subtraction (statistics)	Addition and subtraction (measures)	Mental calculation
	2D shape Length incl. perimeter	Written and mental division	Fractions Division	Fractions	Multiplication and division (measures)	Fractions
	Statistics Mental calculation	Time	Volume and capacity Mass	Position and direction	2D shape incl. sorting	Measures
	Written addition	3D shape	Multiplication incl. 8x table	Time	Decimals Addition and subtraction (money)	Statistics
	Written subtraction	Assess and review week	Multiplication (statistics, measures, money)	Assess and review week	3D shape incl. sorting	Assess and review week
Year 4	Place value	Mental multiplication incl. 6x and 9x tables	Place value Roman numerals Counting incl. negative numbers	Mental multiplication and written division incl. 7x and 11x tables	Counting and sequences (statistics)	Place value
	Place value - decimals	Mental division	Fractions and decimals	Place value	Fractions and decimals (measures)	Statistics

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

	Written addition and subtraction	Written multiplication	Fractions, decimals and division	Written multiplication	Fractions and written division	Addition and subtraction (statistics)
	Written addition and subtraction (problems and inverse)	Length incl. perimeter	Position and direction	2D shape and position	Measures Volume/capacity and mass	Multiplication and division
	2D shape	Statistics	Area	Addition and subtraction (statistics)	Position and area	Shape
	Time	Assess and review week	Multiplication (statistics, measures, money)	Assess and review week	Multiplication facts incl. 12x table and time	Assess and review week
Year 5	Place value	Mental x and ÷ (factors, multiples)	Place value Roman numerals counting incl. negative numbers	Mental and written division	Place value	Place value
	Place value (decimals)	Division including problems	Addition and subtraction including problems	2D and 3D shape incl. sorting	Fractions	Written calculations
	Written + and – including problems	Fractions (compare, order, equivalence)	Mental and written multiplication	Calculating with fractions	Measures (time) and statistics	Fractions
	Geometry (angles)	Multiplication and measures (area)	Measures (length, mass and capacity)	Measures (area and volume)	Geometry	Measures (mass, volume and capacity)
	Geometry and measures (perimeter)	Statistics and measures (time)	Geometry (reflection and translation)	Statistics and measures	Addition and subtraction	Area and volume of shapes
	Addition and subtraction (statistics)	Assess and review	Geometry (angles)	Assess and review	Multiplication and division	Assess and review
Year 6	Place value incl. decimals	Fractions	Place value, sequences and coordinates	Mental and written addition and subtraction	Place value, decimals and fractions	Measurement – mass and volume / capacity

**St Mary's Catholic Primary and Nursery**  
**Mathematics Overview of Learning 2020-2021**

	Mental and written addition	Fractions, percentages, ratio and proportion	2D shape, coordinates, translation and reflection	Measurement, ratio and proportion	Mental and written calculation	Mental and written calculations
	Mental and written multiplication (time)	Geometry - angles Statistics – pie charts	Measurement – temperature, mean	2D and 3D shape	Calculating fractions, ratio and proportion	Fractions
	2D and 3D shape	Measurement – length, including perimeter and mass	Calculating with fractions	Area, perimeter and volume of shapes	Coordinates, translation and reflection	Place value and decimals
	Mental and written subtraction	Measurement – area and volume	Mental and written division	Statistics – line graphs and pie charts	Algebra and sequences	2D and 3D shape
	Mental and written division	Assess and review week	Mental and written multiplication	Assess and review week	Measurement (length and time) and statistics - mean	Assess and review week