ST BERNADETTE'S RC PRIMARY SCHOOL

MATHS CURRICULUM

St Bernadette's RC Primary School

Mathematics Curriculum

Intent

At St. Bernadette's, we believe that mathematics is a fundamental skill for life. Our intent is to deliver a high-quality mathematics curriculum that provides all pupils with a deep, secure, and adaptable understanding of mathematical concepts. We aim to equip children not only with the ability to calculate and solve problems, but also with the confidence to reason, explore patterns, and communicate their ideas effectively.

Our curriculum is designed to promote fluency, reasoning, and problem-solving, in line with the National Curriculum, and reflects a mastery approach to learning. This ensures that all pupils—regardless of background or ability—develop a strong foundation that prepares them for the next stage of their education and for everyday life.

We are committed to ensuring that:

- Pupils develop fluency in the fundamentals of mathematics through varied and frequent practice.
- Pupils can reason mathematically by following lines of enquiry, justifying their thinking, and making generalisations.
- Pupils can solve problems by applying their mathematics to a range of real-life and abstract contexts with confidence and resilience.

Through high expectations, inclusive teaching, and engaging lessons, we foster a positive attitude towards mathematics and encourage all learners to see themselves as capable mathematicians. Our goal is to create lifelong learners who are numerate, logical thinkers, and able to approach challenges with curiosity and determination.

St Bernadette's RC Primary School

Mathematics Curriculum

EYFS (Early Years Foundation Stage)

Working as Mathematicians in EYFS

Nursery

AUTUMN	SPRING	SUMMER
Autumn Term 1 Number • Notices differences in groups of objects to 3. • Rote count in different situations - planned and child led; sometimes skipping numbers. • Begins to sing simple counting rhymes Shape, space and measure • Complete simple insert puzzles. • Notice patterns around them such as spots, stripes, colour. • Compare sizes & weights using gesture & language such as bigger/little/ smaller, high/low, tall, heavy. **Autumn Term 2** Number • Recite numbers past 5. • Subitise to 3 • Count with 1:1 correspondence to 3. • Confidently joins in with simple counting rhymes. Shape, space and measure • Can make comparisons relating to size. • Uses informal language such as 'pointy', 'spotty', stripy' when referring to patterns around them.	**Spring Term 1** Number • Can use fingers to represent up to 4 objects. • Know that the last number you reached when counting a small set of objects, tells you how many there are altogether. • Count with 1:1 correspondence up to 4,5 items - one number for each item 4,5 • Attempts to count objects, actions and sounds e.g. claps, jumps Shape, space and measure • Compare objects relating to length and weight. • Describe the size or shape of real-life objects using simple mathematical vocabulary, e.g.: big/small, round/straight. • Sort/match objects according to different criteria: Colour, size, shape, pattern. **Spring Term 2**	**Summer Term 1** Number • Have some understanding of numbers to 5 and is beginning to know that the amount stays the same however the objects are arranged. • Rote count to 10. • Subitise to 3 • Match numerals to correct amounts – up to 4. • Joins in with number songs, attempting to represent numbers using fingers where appropriate. • Compares amounts using the language of 'more'. • Beginning to order numbers to 5. Shape, space and measure **Summer Term 2**

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Reception

AUTUMN	SPRING	SUMMER
Autumn Term 1 Number • Match and sort objects • Represent 1,2 and 3 • Subitise 1, 2 and 3 Measure, shape and spatial thinking • Compare size, mass and capacity • Compare amounts and lengths • Introduce, explore and create patterns • Notice patterns in actions, sounds, colours and shapes **Autumn Term 2** Number • 1 more • 1 less • Composition and comparison of 1,2, and 3 • Find 4 and 5 • Subitise 4 and 5 • Composition of 4 and 5 Shape • Identify, name and compare • Shapes in the environment • Positional language • Circles and triangles • Shapes with 4 sides	**Spring Term 1** Number • Introducing 0 • Subitise 0 to 5 • Comparison to 5 • Composition of 6, 7 and 8 Measure • Compare mass and capacity • Explore balance • Explore and compare length and height • Time **Spring Term 2** Number • Composition and representation of 9 and 10 • 1 more and 1 less within 10 • Composition to 10 • Number bonds to 10 • Doubles to 10 • Odd and Even Shape • 3D shapes in the environment • Identifying complex patterns • Copying and continuing patterns	**Summer Term 1** Number • Numbers beyond 10 • Add more • Subtraction of numbers to 5 and within 10 • Building doubles • Sharing and grouping • Composition of numbers • Greater than, less than and equal to • 1 more and 1 less **Summer Term 2** Number • Doubling and halving Shape • Rotate and manipulate shapes • Copy 2D shape pictures • Create 2D shape pictures • 2D shapes within 3D shapes • Units of repeating patterns • Create pattern rules Visualise, build and map • Describe positions • Explore maps • Representing maps • Creating maps

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KEY STAGE 1

Working as Mathematicians in Key Stage 1

Year 1

AUTUMN	SPRING	SUMMER
Autumn Term 1 Place Value (within 10) • Count and sort objects • Recognise numbers as words • One less and one more • Fewer, more, same • Less than, greater than, equal to • Number line to 10 **Autumn Term 2** Addition and Subtraction (within 10) • Part whole models • Number bonds within and to 10 • Addition • Subtraction Shape • 3D shapes – name and sort • 2D shapes – name and sort	**Spring Term 1** Place Value (within 20) • Counting to 20 • Teen numbers • Number line to 20 • Estimate Addition and Subtraction • Addition • Subtraction • Doubles **Spring Term 2** Place Value (within 50) • Tens and ones • Number line to 50 • Estimating Length and Height • Compare lengths and height • Measure length using objects • Measure length using centimetres Mass and Volume • Heavier and lighter • Mass • Volume • Capacity	**Summer Term 1** Multiplication and Division • Count in 2s,10,5s • Doubles • Grouping and sharing Fractions • Recognise and find a half • Recognise and find a quarter Position and direction • Left and right • Forward and backwards • Above and below **Summer Term 2** Place value within 100 • Partition into tens and ones • Number line to 100 • One more, one less Money • Recognise coins and notes • Count in coins Time • Before and after • Days and months • Hours, minutes and seconds • Tell time by half hour/hour

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Year 2

AUTUMN	SPRING	SUMMER
Autumn Term 1 Place Value (within 100) • Read and write numerals and words • Tens and ones • Represent and estimate • Compare and order • Number lines • Count in 2s, 5s, 10s and 3s Add and subtract (within 100) • Number bonds • Fact families • Add 3 1-digit numbers • Add and subtract across 10 **Autumn Term 2** Add and subtract (within 100) • 1/10 more and 1/10 less • Add 2 2-digit numbers • Commutative calculations • Inverse Shape • Recognise, draw and sort 2D and 3D shapes • Count edges and vertices • Make patterns with 2D and 3D shapes	**Spring Term 1** Money • Count and compare • Calculate with money • Find change • Make a pound Multiplication and division • Equal groups • Symbols • Arrays • 2, 5 and 10 times table • Divide by 2, 5 and 10 • Double and half • Odd and even **Spring Term 2** Measure • length and heights in Centimetres and metres • Mass, volume and capacity in grams, kilograms, millilitres and litres • Compare and order • Calculate with the 4 operations • temperature	**Summer Term 1** Fractions • Parts & wholes • Equal & unequal • Unit and non-units • Find, recognise and count in halves, quarters, thirds and wholes Time • O'clock and half past • Quarter past and to • Minutes and hours in a day • Time to five minutes **Summer Term 2** Statistics • Tallys, tables, diagrams and pictograms • Count and sort categories • Total and compare data Position and direction • Describe position, movement and turns • Clockwise and anticlockwise • Right angles

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LOWER KEY STAGE 2

Working as Mathematicians in Lower Key Stage 2

Year 3

AUTUMN	SPRING	SUMMER
Autumn Term 1 **Place Value** • Represent and partition numbers • Compare and order numbers • Read and write numbers up to 1000 • ount in 50s • Estimate **Addition and Subtraction** • Add and subtract 1s, 10s, 100s • Add and subtract across 1s, 10s, 100s • Add and subtract using formal methods • Estimate answers using the inverse **Autumn Term 2** **Multiplication and Division A** • Multiplication and division facts for the 3, 4 and 8 timetables • Revision for the 2, 5 and 10 timetables	**Spring Term 1** **Multiplication and division B** • Multiples of 10 • Formal multiplication method 2 digit by 1 digit (exchange and no exchange) Division method 2 digit by 1 digit (exchange and no exchange) **Length and perimeter** • Measure and compare lengths • Add and subtract lengths • Equivalent lengths **Spring Term 2** **Fractions A** • Recognise and write unit and non-unit fractions • Fractions and scales • Equivalent fractions **Mass and capacity** • Measure and compare mass and volume • Add and subtraction mass and volume	**Summer Term 1** **Fractions B** • Add and subtract fractions **Money** • Add and subtract amounts of money • Use pounds and pence • Find change **Time** • Tell and write the time • Analogue and digital • Estimate and read the time • **Summer Term 2** **Time** • Years, months, days, hours, minutes, seconds • Solves problems with time **Shape** • Identify and compare angles • Parallel and perpendicular lines • Recognise and draw 2D and 3D shapes **Statistics** • Draw and interpret bar charts, pictograms and tables • Solve problems

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Year 4

AUTUMN

Autumn Term 1

Number and place value

- Represent numbers to 1,000 and 10,000
- Partition, compare and order numbers
- Roman numerals
- Rounding to the nearest 10, 100 and 1,000

Addition and Subtraction

- Add and subtract 1s, 10s, 100s and 100s
- Add up to two 4-digit numbers with no exchange, one exchange and more than one exchange
- Efficient subtraction
- Estimating answers
- Checking strategies

Autumn Term 2

Multiplication and Division A

- Multiples of 3
- Recall multiplication facts for 3,6,7,8,9,11,12
- Multiply and divide by 1 and 0
- Multiply 3 numbers

Multiplication and Division B

- Use factor pairs
- Multiply and divide by 10 and 100
- Related facts

SPRING

Spring Term 1

Multiplication and Division B

- Informal written methods
- Multiply and divide a 2 digit and 3 digit number by a 1 digit number

Length and perimeter

- Measure and equivalent lengths of km and m
- Measure and calculate perimeter of rectilinear figures in cm an m

Area

- Find and compare the area or rectilinear shapes by counting squares

Fractions

- Partition, compare and order mixed numbers
- Convert mixed numbers to improper fractions
- Equivalent fractions
- Add and subtract fractions from whole and mixed numbers

Spring Term 2

Decimals A

- Y3 tenths revision
- Hundredths as fractions and decimals

Decimals B

- Make a whole with tenths and hundredths
- Partition, compare, round and order decimals
- Halves and quarters as decimals

SUMMER

Summer Term 1

Money

- Estimate, compare and calculate money in pounds and pence

Time

- Read, write and convert time between analogue and digital 12 and 24 hour clocks

Properties of shape

- Identify angles
- Compare and order and angles
- Recognise triangles, quadrilaterals, polygons
- Lines of symmetry

Summer Term 2

Position and direction

- Describe using coordinates
- Plotting using coordinates
- Draw, translate and describe on a grid
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Statistics

- Interpret and present data using graphical methods.

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UPPER KEY STAGE 2

Working as Mathematicians in Upper Key Stage 2

Year 5

AUTUMN	SPRING	SUMMER
Autumn Term 1 • **Place Value/Number system** • Rounding • Comparing and ordering number to 1, 000,000 • **Addition and Subtraction** • Collum addition and subtraction • Inverse operations • **Multiplication and Division** • Common factors • Cube numbers/ square number **Autumn Term 2** • **Fractions A** • Adding/ Subtracting fractions • Equivalent fractions • Ordering fractions	**Spring Term 1** • **Fractions B** • Fractions of quantities • Multiplying factions by integers • **Decimals and percentages** • Fraction and decimals equivalents • Percentages of quantities • **Multiplication and Division** • Long multiplication • Efficient division **Spring Term 2** • **Statistics** • Line graphs and two-way tables • **Perimeter and Area** • Finding the perimeter of rectangular and compound shapes • Estimating perimeter	**Summer Term 1** • **Decimals** • Adding and subtracting decimals • Multiplying and dividing by 10, 100, 1000 • **Negative numbers** • Compare and order negative numbers • Finding the difference • **Converting Units** • Converting between imperial and metric units **Summer Term 2** • **Shape** • Measuring angles • Regular and irregular polygons • 3D Shapes • **Position and direction** • Translation with coordinates • Reflection in horizontal and vertical lines of symmetry • **Volume** • Comparing volume and estimating capacity

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Year 6		
AUTUMN	**SPRING**	**SUMMER**
Autumn Term 1 • Place Value • Compare and Order Numbers • Rounding • Negative Numbers • Addition and Subtraction • Multiplication and Division • Primes / Factors/Multiples /Square & Cube Numbers **Autumn Term 2** • Fractions A • Fractions B • Decimals • Percentages	**Spring Term 1** • Algebra • Ratio • Converting Metric Units **Spring Term 2** • Area of Shapes • Perimeter • Volume • Statistics / Graphs • Angles / Circles / Nets • Position and Direction	**Summer Term 1** Revision / Boosting **Summer Term 2** Problem Solving Team tasks Real Life Problems