Maths Curriculum at Barrow CE Primary School

Maths Intent

At Barrow CE School, we believe that every child can succeed in mathematics. Rooted in our Christian vision that every individual is uniquely gifted and called to **"Let Their Light Shine" (Matthew 5:16)**, we adopt a mastery approach to teaching and learning in mixed-ability classes so that all pupils are encouraged, supported, and expected to thrive. Our ethos is that every child can be successful in maths—no one is limited by prior attainment or circumstance.

We reject the notion that 'some children cannot do maths' because we believe that every child is wonderfully made by God and capable of growth, achievement, and excellence. Mathematics is for everyone, and we strive to nurture confidence, perseverance, and joy in learning.

Through high-quality teaching, we aim to deliver an inspiring and engaging curriculum that builds deep conceptual understanding and sparks curiosity about the order and patterns within God's world. We equip our children with the skills to become resilient problem-solvers who use their talents with confidence, purpose, and compassion. In doing so, we help every child shine brightly as they grow into thoughtful, capable lifelong mathematicians.

Maths Implementation

Our approach to teaching mathematics enables children to become numerate, creative, independent, inquisitive, and confident learners. We foster a positive learning environment where children are encouraged to embrace mistakes as valuable learning opportunities.

A mastery curriculum ensures a deep, long-term, secure, and adaptable understanding of mathematics. It enables children to become fluent in calculations, develop confidence in mathematical reasoning, and refine their problem-solving skills. Our lessons are engaging, accessible to all, and follow *Power Maths*, a scheme approved by the Department for Education.

We implement the Concrete-Pictorial-Abstract (CPA) approach to help children explore and demonstrate their mathematical learning. By progressing through these stages, pupils build a solid understanding of mathematical concepts, making connections and deepening their knowledge. Complex mathematical ideas are developed from simpler conceptual components, ensuring that each step in the learning sequence is clear and logical.

Maths Impact

Mathematics is a journey of exploration, clarification, practice, and application over time. At each stage of learning, children develop a deep conceptual understanding of mathematical concepts, allowing them to progress and build on their knowledge.

Through our mastery approach, pupils gain the confidence and skills to apply their mathematical knowledge across the curriculum and in real-world contexts. We expect all children to develop strong problem-solving abilities, logical reasoning, and fluency in calculations.

To ensure progress for all learners, we use ongoing formative assessments during lessons to identify misconceptions and address gaps in understanding. Additionally, end-of-term summative assessments support a clear measure of each child's progress and help inform future teaching.

We believe that all pupils can succeed in mathematics. By fostering resilience and a growth mindset, we equip them with essential mathematical skills that will support their future education and everyday life.

Reception	Autumn	Spring	Summer
	Number and Place Value - **Numbers to 5**	Number and Place Value - **Numbers to 10**	Number- addition and subtraction - **Counting on and counting back**
	Number and Place Value - **Comparing groups within 5**	Number and Place Value - **Comparing groups up to 10**	Number and Place Value - **Numbers to 20**
	Geometry, properties of shape **– Shape (2D and 3D shapes)**	Number- addition and subtraction - **Addition to 10**	Number and Multiplication - **Numerical patterns (Doubling, Halving, Sharing, odds and evens)**
	Number- addition and subtraction - **Change within 5 – one more, one less**	Number and Place Value – **Measure (Length, height, distance and weight)**	Geometry – Shape - **Composing and decomposing shapes**
	Number - addition and subtraction - **Number bonds within 5**	Number- addition and subtraction - **Number bonds to 10**	Number and Place Value – **Measure (Volume and capacity)**
	Geometry - properties of shape **– Space (Spatial awareness)**	Number- addition and subtraction - **Subtraction**	Number- addition and subtraction **– Sorting**
		Geometry – properties of shape - **Exploring patterns**	Measurement - **Time**

Power Maths WRM Edition Mixed Age Planning Yr 1 & 2

Year One	Autumn 1	Spring	Summer

	Numbers to 10 (unit 1)	Numbers to 20 (unit 6)	Multiplication and division (unit 11)
	Part-whole within 10 (unit 2)	Addition and subtraction within 20 (unit 7)	Fractions (unit 12)
	Addition within 10 (unit 3)	Introducing length and height (unit 9)	Numbers to 50 (unit 8)
	Subtraction within 10 (unit 4)	Introducing mass and capacity (unit 10)	Time (unit 16)
	2D and 3D shapes (unit 5)		Position and direction (unit 13)
			Money (unit 15)
			Numbers to 100 (unit 14)
Year Two	Autumn	Spring	Summer
	Numbers to 100 (unit 1)	Numbers to 100 (unit 1 cont.)	Statistics (unit 14)
	Addition and Subtraction 1 (unit 2)	Multiplication and division 1 (unit 6)	Fractions (unit 10)
	Addition and Subtraction 2 (unit 3)	Multiplication and division 2 (unit 7)	Time (unit 11)
	Properties of shape (unit 4)	length and height (unit 8)	Position and direction (unit 13)
		Mass, capacity and temperature (unit 9)	Money (unit 5)
			Problem solving and efficient methods (unit 12)

Power Maths WRM Edition Mixed Age Planning Year 3 & 4

Year Three	Autumn	Spring	Summer
	Place value within 1,000 (Unit 1)	Multiplication and division 3 (unit 6)	Time (unit 13)
	Addition and subtraction 1 (Unit 2)	Length and perimeter (unit 7)	Angles and properties of shape (unit 14)
	Addition and Subtraction 2 (unit 3)	Fractions 1 (unit 8)	Money (unit 12)
			Statistics (unit 15)

	Multiplication and division 1 (Unit 4) Multiplication and division 2 (unit 5)	Fractions 2 (unit 11) Mass (unit 9) Capacity (unit 10)	
Year Four	Autumn	Spring	Summer
	Place value – 4-digit numbers 1 (unit 1) Place value – 4-digit numbers 2 (unit 2) Addition and subtraction (unit 3) Multiplication and division 1 (unit 5)	Multiplication and division 2 (unit 6) Measure – area (Unit 4) Length and perimeter (unit 7) Fractions 1 (unit 8) Fractions 2 (unit 9) Decimals 1 (unit 10)	Decimals 2 (unit 11) Time (unit 13) Angles and 2D shapes (unit 14) Money (unit 12) Statistics (unit 15) Geometry – position and direction (unit 16)

Power Maths WRM Mixed Age Planning Yr 5 & 6

Year Five	Autumn	Spring	Summer
	Place value within 1,000,000 (unit 1) Place value within 1,000,000 (unit 2) Addition and subtraction (unit 3) Multiplication and division 1 (unit 4) Multiplication and division 2 (unit 7) Fractions 1 (unit 5) Fractions 2 (unit 6)	Fractions 2 (unit 6) continued Fractions 3 (unit 8) Decimals and percentages (unit 9) Decimals (unit 14)	Properties of shapes (unit 12) perimeter and area (unit 10) Volume (unit 17) Converting units (unit 16) Graphs and tables (unit 11) Position and direction (unit 13) Negative numbers (unit 15
Year Six	Autumn	Spring	Summer

	Place value within 10,000,000 (unit 1)	Fractions 2 (unit 5)	Properties of shapes (unit 13)
	Four operations 1 Part 1 (unit2)	Decimals (unit 9)	Perimeter, area and volume (unit 11)
	Ratio (unit 7)	Percentages (unit 10)	Imperial and metric measures (unit 6)
	Four operations 1 Part 2 (unit2)	Algebra (unit 8)	Statistics (unit 12)
	Four operations 2 (unit 3)		Position and direction (unit 14)
	Fractions 1 (Unit 4)		Problem solving (unit 15)

Please visit the Maths curriculum page at Barrow CE School to access the calculation policies, Power Maths presentation, mindset resources, and key vocabulary posters.