Maths Curriculum at Barrow CE Primary School

Maths Intent
At Barrow CE School, we believe that every child can succeed in mathematics. We adopt a mastery approach to teaching and learning in mixed-ability classes, ensuring all pupils have the opportunity to thrive. Our ethos is that every child can be successful in maths—no one is limited by prior attainment. We reject the notion that 'some children cannot do maths' because we believe that maths is for everyone! Through high-quality teaching, we aim to deliver an inspiring and engaging curriculum that fosters confidence, curiosity, and a deep understanding of mathematical concepts. We equip our children with the skills to become resilient problem-solvers and 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 - **Comparing groups within 5** Geometry, properties of shape **– Shape (2D and 3D shapes)** Number- addition and subtraction - **Change within 5 – one more, one less** Number - addition and subtraction - **Number bonds within 5** Geometry - properties of shape **– Space (Spatial awareness)**	Number and Place Value - **Numbers to 10** Number and Place Value - **Comparing groups up to 10** Number- addition and subtraction - **Addition to 10** Number and Place Value – **Measure (Length, height, distance and weight)** Number- addition and subtraction - **Number bonds to 10** Number- addition and subtraction - **Subtraction** Geometry – properties of shape - **Exploring patterns**	Number- addition and subtraction - **Counting on and counting back** Number and Place Value - **Numbers to 20** Number and Multiplication - **Numerical patterns (Doubling, Halving, Sharing, odds and evens)** Geometry – Shape - **Composing and decomposing shapes** Number and Place Value – **Measure (Volume and capacity)** Number- addition and subtraction **– Sorting** Measurement - **Time**

Power Maths WRM Edition Mixed Age Planning Yr 1 & 2

Year One	Autumn 1	Spring	Summer
	Numbers to 10 (unit 1) **Part-whole within 10 (unit 2)** **Addition within 10 (unit 3)** **Subtraction within 10 (unit 4)** **2D and 3D shapes (unit 5)**	**Numbers to 20 (unit 6)** **Addition and subtraction within 20 (unit 7)** **Introducing length and height (unit 9)** **Introducing mass and capacity (unit 10)**	**Multiplication and division (unit 11)** **Fractions (unit 12)** **Numbers to 50 (unit 8)** **Time (unit 16)** **Position and direction (unit 13)** **Money (unit 15)** **Numbers to 100 (unit 14)**

Year Two	Autumn	Spring	Summer
	Numbers to 100 (unit 1) **Addition and Subtraction 1 (unit 2)** **Addition and Subtraction 2 (unit 3)**	**Numbers to 100 (unit 1 cont.)** **Multiplication and division 1 (unit 6)** **Multiplication and division 2 (unit 7)**	**Statistics (unit 14)** **Fractions (unit 10)** **Time (unit 11)**

	Properties of shape (unit 4)	**length and height (unit 8)** **Mass, capacity and temperature (unit 9)**	**Position and direction (unit 13)** **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) **Addition and subtraction 1 (Unit 2)** **Addition and Subtraction 2 (unit 3)** **Multiplication and division 1 (Unit 4)** **Multiplication and division 2 (unit 5)**	**Multiplication and division 3 (unit 6)** **Length and perimeter (unit 7)** **Fractions 1 (unit 8)** **Fractions 2 (unit 11)** **Mass (unit 9)** **Capacity (unit 10)**	**Time (unit 13)** **Angles and properties of shape (unit 14)** **Money (unit 12)** **Statistics (unit 15)**
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) **Four operations 1 Part 1 (unit2)** **Ratio (unit 7)** **Four operations 1 Part 2 (unit2)** **Four operations 2 (unit 3)** **Fractions 1 (Unit 4)**	**Fractions 2 (unit 5)** **Decimals (unit 9)** **Percentages (unit 10)** **Algebra (unit 8)**	**Properties of shapes (unit 13)** **Perimeter, area and volume (unit 11)** **Imperial and metric measures (unit 6)** **Statistics (unit 12)** **Position and direction (unit 14)** **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.