

Blue Coat's Mathematics Curriculum 2026-27

Our Christian Vision

'With God all things are possible' — *Matthew 19:26*

At Blue Coat, our mathematics curriculum is designed to unlock the boundless potential within every child. Rooted in our Christian faith, we believe that every child can succeed in mathematics. We provide a high-quality, inclusive, and ambitious mastery curriculum that empowers children to become fluent, resilient, and creative mathematical thinkers.

Our Christian Values of **Joy**, **Wisdom**, and **Courage** are at the very centre of our mathematics curriculum, reflected in our 'Big Questions' and woven through every stage of our children's learning journey.

Overall, we aim to:

- Foster **wisdom** through mathematical reasoning, critical problem-solving, and a deep conceptual understanding. We encourage children to look beyond simple procedures, developing the analytical skills required to logicalise, justify, and prove their thinking.
- Build **courage** by empowering children to embrace mistakes as vital learning opportunities. We foster a growth mindset where children have the resilience to tackle complex mathematical challenges, articulate their mathematical vocabulary aloud, and persist through cognitive conflict.
- Spark **joy** through a lifelong appreciation for the beauty of numbers, inspiring a sense of awe and wonder as children uncover the patterns, symmetries, and connections that link mathematics to the wider world.

The Blue Coat Mathematician:

- **has conceptual mastery & mathematical fluency**
 - We intend for all children to develop a deep, long-term, and adaptable understanding of maths. Through a concrete-pictorial-abstract (CPA) approach, we ensure scaffolding is robust so that children do not just memorise formulas, but truly understand the underlying structures of numbers.
- **is fluent in mathematical talk & vocabulary**
 - We intend to build mathematically rich classrooms where language is a tool for thinking. Children are systematically taught precise mathematical vocabulary and are encouraged to use full sentences to explain their reasoning, building the confidence to debate and refine ideas.
- **makes real-world connections & thinks about 'Big Questions'**
 - By asking 'Big Questions', we intend to show children that mathematics is not an isolated subject, but a universal language. We connect their learning to real-world contexts, STEM, and financial literacy, helping them see the purpose and divinity in the order of the world around them.

Our Ultimate Goal

When children leave Blue Coat, they do so not just as capable calculators, but as curious, courageous, and wise mathematicians who view the world with a sense of wonder and possess the mathematical tools to realise that *with God, all things are possible*.

Year 3					
Autumn	Place Value		Addition and Subtraction		Multiplication and Division
	The Big Question: How does understanding 3-digit numbers help us find joy in the order and beauty of God’s world?		The Big Question: Why does it take courage to exchange across columns, and how do we learn from the mistakes we make along the way?		The Big Question: How can we find joy in the rhythms of multiplication, and how do equal groups show us the fairness in sharing?
Spring	Multiplication and Division		Length and Perimeter		Fractions
	The Big Question: How can we find joy in the rhythms of multiplication, and how do equal groups show us the fairness in sharing?		The Big Question: How do we use wisdom to choose the right tools to measure accurately, and how does calculating perimeter help us understand boundaries?		The Big Question: How can sharing things fairly bring joy to others, and how do fractions help us appreciate the equal parts of a whole?
Summer	Fractions	Money	Time	Shape	Statistics
	The Big Question: How can sharing things fairly bring joy to others, and how do fractions help us appreciate the equal parts of a whole?	The Big Question: How do we use wisdom to manage our money, and why is giving change an act of honesty and fairness?	The Big Question: How do we use wisdom to track the passing of time, and why is every minute a precious gift to be used well?	The Big Question: Why does it take courage to look past the surface of a shape and explore its hidden properties, lines, and angles?	The Big Question: How can collecting and presenting data help us celebrate the unique choices and joy within our classroom?

Year 3/4						
Autumn	Place Value The Big Question: <i>How do we use wisdom to see the hidden patterns that connect small numbers to thousands?</i>		Addition and Subtraction The Big Question: <i>How can we find joy in teamwork when we combine our ideas to solve complex numerical puzzles?</i>		Measurement The Big Question: <i>How do we find joy in measuring the space we occupy, and how does counting squares reveal the surface of our world?</i>	Multiplication & Division The Big Question: <i>How do we build the courage to face unknown times tables, and how does scaling a number up help us grow our confidence?</i>
Spring	Multiplication & Division The Big Question: <i>How do we build the courage to face unknown times tables, and how does scaling a number up help us grow our confidence?</i>	Length and Perimeter The Big Question: <i>How do we use wisdom to convert between different units of measurement, and how does calculating perimeter help us design spaces for others?</i>	Fractions The Big Question: <i>How do we use wisdom to see that different fractions can actually hold the exact same value?</i>		Mass and Capacity The Big Question: <i>How do the scales of mass and capacity bring order to our experiments, and how can accurate measuring spark a sense of wonder?</i>	Fractions The Big Question: <i>How do we use wisdom to see that different fractions can actually hold the exact same value?</i>
Summer	Time The Big Question: <i>Why does it take courage to read the story of a clock, and how do we confidently convert the hidden patterns of hours, minutes, and days?</i>	Decimals The Big Question: <i>How does the wisdom of place value help us look beneath the whole number to see the value of tenths and hundredths?</i>	Money The Big Question: <i>How does the wisdom of decimals help us calculate costs accurately, and how do we make wise choices when managing money?</i>	Shape The Big Question: <i>Why does it take courage to look deeper at the lines and angles of a shape, and how do we classify them with confidence?</i>	Geometry The Big Question: <i>How can we find joy in finding our way, and how does a grid system help us map out a clear path across a page?</i>	Statistics The Big Question: <i>How do we use wisdom to interpret charts and graphs, and what stories do the numbers tell us about the world we live in?</i>

Year 4						
Autumn	Place Value		Addition and Subtraction		Measurement (Area)	
	The Big Question: <i>Why does it take courage to step into the thousands, and how do we face the challenge of rounding numbers?</i>		The Big Question: <i>How do we use wisdom to choose the most efficient strategy, rather than just the quickest one?</i>		The Big Question: <i>How can we find joy in exploring the surfaces of shapes, and how does counting squares help us understand the space we occupy?</i>	
Spring	Multiplication and Division		Length and Perimeter		Fractions	
	The Big Question: <i>How do we use wisdom to break large numbers into smaller parts, and how do factors reveal the hidden building blocks of multiplication?</i>		The Big Question: <i>How do we use wisdom to convert vast distances into smaller units, and how does calculating perimeter help us plan and build accurately?</i>		The Big Question: <i>Why does it take courage to cross the whole number barrier, and how do we confidently navigate improper fractions?</i>	
Summer	Decimals	Money	Time	Shape	Statistics	Position and Direction
	The Big Question: <i>How does the wisdom of a decimal point help us divide whole numbers into tiny fractions like tenths and hundredths?</i>	The Big Question: <i>How does the wisdom of estimating help us budget our money, and how do decimals keep our calculations honest?</i>	The Big Question: <i>Why does it take courage to convert between analogue and digital time, and how do we confidently navigate a 24-hour day?</i>	The Big Question: <i>Why does it take courage to look past what a shape looks like and classify it by its hidden angles and symmetry?</i>	The Big Question: <i>How do we use wisdom to read between the lines of a graph, and what true stories can data tell us about our world?</i>	The Big Question: <i>How can a simple grid bring joy to navigation, and how do coordinates help us map out movements and translations?</i>

Year 5						
Autumn	Place Value		Addition & Subtraction	Multiplication & Division		Fractions
	The Big Question: How does the <i>wisdom</i> of the place value system allow us to look at a million and see the power of a single digit?		The Big Question: How does the <i>wisdom</i> of inverse operations help us check our tracks and find absolute certainty in our answers?	The Big Question: Why does it take <i>courage</i> to tackle long multiplication and remainders, and how do we stay resilient when calculations get longer?		The Big Question: How does the <i>wisdom</i> of finding a common denominator help us bring harmony and order to completely different fractions?
Spring	Multiplication & Division	Fractions	Decimals & Percentages	Perimeter and Area		Statistics
	The Big Question: Why does it take <i>courage</i> to tackle long multiplication and remainders, and how do we stay resilient when calculations get longer?	The Big Question: How does the <i>wisdom</i> of finding a common denominator help us bring harmony and order to completely different fractions?	The Big Question: How does the <i>wisdom</i> of percentages allow us to compare completely different amounts on a fair and equal scale?	The Big Question: How do we find <i>joy</i> in the puzzle of composite shapes, and how can estimating the area of irregular things spark our wonder?		The Big Question: How do we use <i>wisdom</i> to interpret complex timetables and line graphs, and how do we spot when data is trying to mislead us?
Summer	Shape	Position & Direction	Decimals	Negative Numbers	Converting Units	Volume
	The Big Question: Why does it take <i>courage</i> to step beyond 2D boundaries and use precise degrees to measure the hidden angles of a turn?	The Big Question: How does the mathematical symmetry of reflection bring balance and <i>joy</i> to the patterns we create?	The Big Question: How does the <i>wisdom</i> of place value keep our calculations safe when we multiply and divide numbers by 10, 100, and 1,000?	The Big Question: Why does it take <i>courage</i> to cross below zero, and how do we confidently navigate the frosty world of negative scales?	The Big Question: How do we use <i>wisdom</i> to build a bridge between metric scales and old imperial measurements?	The Big Question: How can exploring the 3D space inside a container bring a sense of awe and wonder to our everyday world?

Year 6						
Autumn	Place Value The Big Question: <i>How do we find the courage to navigate numbers up to ten million and trust our reasoning when numbers become vast?</i>	Addition, Subtraction, Multiplication & Division The Big Question: <i>Why does it take courage to untangle multi-step problems, and how do we remain resilient when calculations become complex?</i>	Fractions The Big Question: <i>How does the wisdom of simplification help us find the core truth of a fraction, no matter how large the numbers seem?</i>	Fractions The Big Question: <i>How does the wisdom of simplification help us find the core truth of a fraction, no matter how large the numbers seem?</i>	Measurement The Big Question: <i>How do we use wisdom to convert vast and tiny measures, and why do shared units of measurement bring harmony to our global community?</i>	
Spring	Ratio The Big Question: <i>How can the harmony of scale and ratio bring balance and joy to art, recipes, and creation?</i>	Algebra The Big Question: <i>Why does it take courage to replace numbers with unknown letters, and how do variables help us solve life's mysteries?</i>	Decimals The Big Question: <i>How does the wisdom of a single digit's place value ensure precision when we multiply and divide across the decimal boundary?</i>	Fractions, Decimals & Percentages The Big Question: <i>How do we use wisdom to choose the most powerful representation when comparing completely different numeric formats?</i>	Area, perimeter & volume The Big Question: <i>How can discovering the mathematical relationship between formulas for area and volume spark a sense of awe and wonder?</i>	Statistics The Big Question: <i>How do we use wisdom to read between the slices of a pie chart, and how does calculating the mean help us find the hidden balance in a data set?</i>
Summer	Shape The Big Question: <i>Why does it take courage to construct exact geometric shapes using only angles and radii, and how do we stay precise when drawing the unknown?</i>		Geometry The Big Question: <i>How does expanding our grid into all four quadrants bring joy to mapping, and how do shapes retain their identity when translated and reflected?</i>		Themed projects, consolidation and problem solving	