Westbury ACADEMY

Mathematics Long Term Plan

Independence & Preparation for Adulthood

Intent:

At Westbury Academy, our maths curriculum develops the confidence and core numeracy skills pupils need for **Independence** and **Preparation for Adulthood**. Through scaffolded support, real-life contexts, and the CPA (concrete-pictorial-abstract) approach, pupils build resilience, reasoning, and problem-solving skills.

Throughout Westbury Academy we use White Rose Maths to ensure secure foundations and progression, alongside external support from mathematical experts, such as MEI (Innovators in Mathematics Education). Frequent Times Table Rock Star competitions take place across Westbury Academy.

We promote oracy and rich vocabulary, enabling pupils to communicate their thinking clearly. Structured discussion deepens understanding and builds confidence. Teachers confidently address misconceptions, ensuring learning is clarified and embedded. Pupils are supported to reflect, take creative risks, and learn from mistakes, developing creativity and confidence.

Pupils explore number, shape, and data through functional learning, applying maths in everyday contexts. These experiences are extended through the curriculum links to Personal Development and Careers.

We encourage curiosity by promoting exploration, questioning, and flexible thinking. With tools like TTRS and home learning tasks help consolidate fluency and recall.

With clear routines and high expectations, pupils show commitment, take pride in their work, and strive to reach their potential. Pupils leave Westbury able to apply mathematical knowledge and understanding across settings and for a range of purposes.

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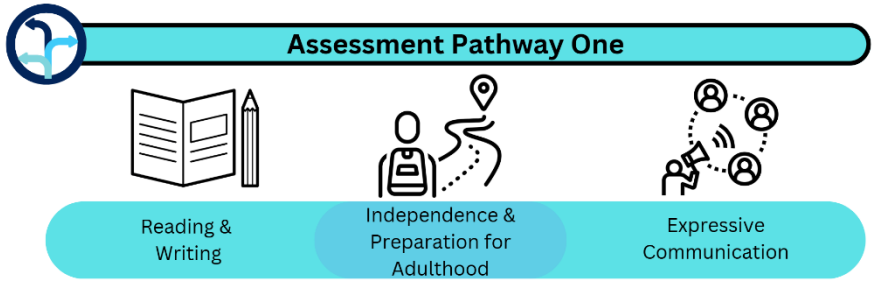
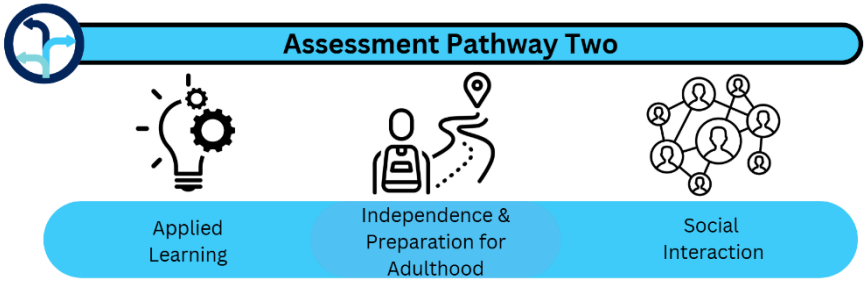
Mathematics: Westbury's Assessment Pathways

The mathematics curriculum at Westbury is designed and assessed through Westbury's Assessment Pathways. Each pathway outlines a distinct approach to curriculum design and assessment, ensuring pupils are supported to make meaningful progress in fluency, reasoning, and real-life application.



Pupils are supported in developing fluency, confidence, and participation in learning routines.

- A focus on number sense, patterns, and early operations
- Practical (concrete) tasks, repetition, and adult modelling, including identification of potential misconceptions
- Oracy development through regular exposure to mathematic vocabulary



Pupils build fluency and begin to apply knowledge in structured and real-life contexts, developing resilience and independence.

- A focus on written methods, estimation, and reasoning
- Application of maths to time, money, measure, and data
- Regular pictorial support and written explanations to deepen understanding
- Oracy development through regular exposure to mathematic vocabulary

Pupils are encouraged to demonstrate ambition and ownership in their learning, applying mathematical thinking across a range of contexts.

- A focus on multi-step reasoning, precision, and problem solving
- Use of abstract tasks, real-world scenarios, and cross-subject links
- Opportunities for self- and peer-assessment to promote reflection
- Oracy development through regular exposure to mathematic vocabulary

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Personal Development and Careers Links

The mathematics curriculum at Westbury Academy plays a key role in supporting pupils' Personal Development. Through carefully planned learning experiences, pupils build the numeracy and thinking skills required to navigate real-life contexts, explore the world of work, and develop the independence needed for life beyond Westbury.

Personal Development Links

- Resilience and self-belief: Maths challenges pupils to persevere, reflect, and learn from mistakes.
- Problem-solving and critical thinking: Regular opportunities to apply logic, analyse data and interpret information support decision-making across the curriculum and in life.
- Communication: Pupils are supported to articulate mathematical reasoning using appropriate vocabulary, strengthening their confidence, oracy development, and precision when working with others.
- Confidence and curiosity: Pupils are encouraged to question, explore patterns and seek solutions.
- Citizenship and responsibility: Financial education and practical maths develop responsible attitudes toward budgeting, saving and planning for the future.

Careers Links

- Exposure to mathematical roles across sectors, including through lessons and phase assemblies (e.g. forensic scientist, engineering, finance, architecture, construction, retail, logistics, technology).
- Use of real-life scenarios and vocational maths tasks (e.g. measuring, costing, planning) to develop employability skills such as estimation, time management and attention to detail.
- Opportunities for enterprise projects (e.g. Westbury Goes School, Christmas Fair).
- Engagement with platforms such as MyMaths and Excel for skills transferrable to modern workplaces.
- Signposting maths-linked pathways in post-16 education, including apprenticeships and vocational routes.

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Maths Overview – Nurture

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Getting to know you		Match, sort and compare		Talk about measure and patterns		It's me 1,2,3		Circles and triangles	1,2,3,4,5		Shapes with 4 sides		Consolidation
Spring	Alive in 5		Mass and capacity	Growing 6,7,8		Length, height and time		Building 9 and 10			Explore 3-D shapes			Consolidation
Summer	To 20 and beyond		How many?	Manipulate, compose and decompose		Sharing and grouping		Visualise, build and map			Make connections			Consolidation

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Maths Overview Year 3 / 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place Value			Addition and Subtraction					Multiplication and Division A				Consolidation	
Spring	Multiplication and Division B			Length and Perimeter			Fractions A			Mass and Capacity			Consolidation	
Summer	Fractions B		Money		Time			Shape		Statistics		Consolidation		

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Maths Overview Year 5/6 Group 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place Value				Addition and Subtraction			Length and perimeter		Multiplication and Division			Consolidation	
Spring	Multiplication and Division			Area	Fractions				Decimals				Consolidation	
Summer	Decimals		Money		Time		Statistics	Properties of shape			Position and Direction		Consolidation	

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Maths Overview Year 5/6 Group 2 (SATs Group)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place Value			Addition and Subtraction		Statistics		Multiplication and division		Perimeter and area			Consolidation	
Spring	Multiplication and Division			Fractions						Decimals and percentages			Consolidation	
Summer	Consolidation	Decimals		Properties of shape				Position and direction		Converting units		Volume		Consolidation

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Maths Overview – Year 7 – Group 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Sequences		Understand and Use Algebraic Notation		Equality and Equivalence		Place Value & Ordering			Fraction, Decimal & Percentage Equivalence			Consolidation	
Spring	Solving Problems with Addition and subtraction		Solving Problems with Multiplication and Division			Fractions and Percentages of amounts	Operations & Equations with Directed Number			Addition & Subtraction of Fractions			Consolidation	
Summer	Constructing, measuring & using geometric notations			Developing Geometric Reasoning			Developing number sense		Sets & Probability		Prime Numbers & Proof		Consolidation	

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Maths Overview Year 7 Group 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Sequences		Understand and Use Algebraic Notation		Equality and Equivalence		Place Value & Ordering integers & Decimals			Fraction, Decimal & Percentage Equivalence			Consolidation	
Spring	Solving Problems with Addition and Subtraction		Solving Problems with Multiplication and Division			Fractions and Percentages of amounts	Operations & Equations with Directed Number			Addition & Subtraction of Fractions			Consolidation	
Summer	Constructing, measuring & using geometric notations			Developing Geometric Reasoning			Developing number sense		Sets & Probability		Prime Numbers & Proof		Consolidation	

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Maths Overview – Year 8 -support

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Proportional Reasoning		Multiplicative change		Multiply and Dividing fractions		Work in the Cartesian plane			Representing Data		Tables and Probability		Consolidation
Spring	Brackets, equations and inequalities				Sequences	Indices	Fractions and percentage			Standard index form		Number sense		Consolidation
Summer	Angles in parallel lines and polygons			Area of trapezia and circles		Line Symmetry	The data handling cycle				Measures of location			Consolidation

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Maths Overview Year 8

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Ratio and scale		Multiplicative change		Multiply and Dividing fractions		Work in the Cartesian plane			Representing Data		Tables and Probability		Consolidation
Spring	Brackets, equations and inequalities				Sequences	Indices	Fractions and percentage			Standard index form		Number sense		Consolidation
Summer	Angles in parallel lines and polygons			Area of trapezia and circles		Line symmetry and reflection	The data handling cycle				Measures of location			Consolidation

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Maths Overview – Year 9 -support

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Straight line graphs		Form and equations		Test conjectures		Three-dimensional shapes			Constructions and congruency			Consolidation	
Spring	Numbers		Use percentages		Maths and money		Deduction		Rotation and translation		Pythagoras' theorem		Consolidation	
Summer	Enlargement and similarity		Solve ratio and proportion		Rates		Probability		Algebraic representation	Circle geometry		Polygon geometry		Consolidation

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Maths Overview Year 9

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Straight line graphs		Forming and solving equations		Testing conjectures		Three dimensional shapes			Constructions and congruency			Consolidation	
Spring	Numbers		Using percentages		Maths and money		Deduction		Rotation and translation		Pythagoras' theorem		Consolidation	
Summer	Enlargement and similarity		Solving ration and proportion problems		Rates		Probability		Algebraic representation	Revision				

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Maths Overview - Entry Level 1 and 2 AQA

If the students require more time on Entry Level 1 then the topics will be revisited during the year.

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Property of number			The Four Operations		The Calendar and time			Ratio		Money		Measures	Geometry
Spring	Property of number				The Four operations			The Calendar and time				Ratio		
Summer	Money		Measure			Geometry				Re-visit modules if required – coursework				

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Maths Overview – Entry Level 3 AQA

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Property of number					The Four Operations			The Calendar and time			Ratio		
Spring	Ratio			The Four Operations			Money		Measures			Geometry		Statistics
Summer	Statistics				Revisit and modules that need further evidence and then move to Functional Skills 1									

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Maths Overview – Functional skills 1 AQA

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place Value 4 Operations				Perimeter and area			Indices and order of operations			Ratio		Volume/3D shapes	Money
Spring	Converting units		Data and graphs		Statistics		Fractions			Decimals		Rounding and estimation		Probability
Summer	Measure/elevation/plans			Percentages			Coordinates				Revision for Summer exams			

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Maths Overview – Functional skills 2 AQA

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Place Value 4 Operations				Perimeter and area			Indices and order of operations		Ratio		Volume/3D shapes		Money
Spring	Converting units		Data and graphs		Statistics		Fractions			Decimals		Rounding and estimation		Probability
Summer	Measure/elevation/plans			Percentages			Coordinates			Revision for Summer exams				

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Maths Overview – Year 10 – Foundation AQA

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Angles			Congruence and similarity		Basic number, Perimeter and circumference		Factors and multiples	Basic algebra	Basic fractions		Basic percentages		Basic decimals
Spring	Rounding	Collecting and representing data		Sequences		Coordinates and linear graphs		Perimeter and area	Circumference and area		Real life graphs	Ratio and proportion		
Summer	Properties of polygons		Equations	Indices	Standard form	Basic probability	Transformations	Scale diagrams and bearing	2D representation of 3D shapes	Calculating with percentages		Measures	Statistical measures	Constructions and loci

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Maths Overview – Year 10 – Higher AQA

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Angles scale diagrams and bearings	Basic number factors and multiples	Basic algebra review	Fractions and decimals	Coordinates and linear graphs	Rounding	Collecting and representing data	Sequences	Basic percentages	Perimeter and area				
Spring	Circumference and area		Real life graphs		Ratio and proportion	Properties of polygons		Equations		Indices		Surds		Basic probability
Summer	Standard form	Measures	Transformations		Congruence and similarity		2D Representations of 3D shapes		Calculating with percentages		Statistical measures		Constructions and loci	

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Maths Overview – Year 11 – Foundation AQA

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14
Autumn	Probability		Volume	Algebra: quadratics, rearranging formulae and identities			Scatter graphs	Inequalities		Pythagoras' theorem	Simultaneous equations	Algebra and graphs		
Spring	Sketching graphs		Direct and inverse proportion		Trigonometry		Solving quadratic equations	Quadratic graphs		Growth and decay	Vectors	Revision		
Summer	Revision													