

Curriculum Intent

At Biddulph High School, our mathematics curriculum is designed to empower all students to become confident, capable, and curious mathematicians. We believe that numeracy is a vital life skill—essential not only for academic success but for navigating the challenges of modern life, employment, and citizenship with assurance.

Our intent has three key strands:

- **Build strong foundations in numeracy:** We prioritise fluency in key mathematical concepts and methods, equipping students with the ability to reason, solve problems, and make informed decisions in everyday contexts.
- **Inspire a lifelong love of mathematics:** Through engaging lessons, rich mathematical discussions, and real-world connections, we encourage students to see mathematics not just as a school subject, but as a dynamic and creative discipline.
- **Promote mathematical resilience and independence:** We foster a growth mindset and cultivate perseverance, enabling students to take intellectual risks and approach challenges with confidence.

By the time students leave Biddulph High School, they will be numerate, reflective learners who appreciate the beauty, power, and utility of mathematics—ready to thrive in further education, careers, and daily life.

Courses

GCSE Mathematics: [Pearson Edexcel](#)

A Level and Further Mathematics: [Pearson Edexcel](#)

Curriculum Overview – Year 9 to 11

Year	Term 1	Term 2	Term 3
9	Fractions, decimals and percentages, rounding, standard form Probability Inequalities and equations, formula Constructions, circles and 3D shapes	Pythagoras and Trigonometry, Ratio and proportion Linear and quadratic graphs Distance and motion time graphs, compound measures	Angles and bearings, transformations Congruence and similarity Statistical diagrams Vectors
10 Foundation	Introduction to GCSE Number, fractions percentages and decimals Introduction to GCSE Algebra, equations and inequalities Averages and charts Angles	Statistics Perimeter, area and volume Linear Graphs Transformations	Ratio and proportion Pythagoras Right Angled Trigonometry Probability Compound measures
10 Higher	Introduction to GCSE Number Introduction to GCSE Algebra Charts and averages Fractions and percentages, ratio and Proportion Angles, Pythagoras and trigonometry	Real life and algebraic graphs Area and volumes Transformations Bearings and constructions	Quadratic equations and inequalities Probability Proportion equations Similarity and congruency
11 Foundation	Constructions Quadratic equations and graphs Cylinders and spheres Higher number skills Vectors	Higher Equations Exam preparation and revision	Exam preparation and revision
11 Higher	Bound Calculations Higher Trigonometry Higher Statistics Higher Algebraic graphs Circle Theorems	Algebra fractions and surds Vectors and proof Proportion and graphs Exam preparation and revision	Exam preparation and revision

Year	Term 1	Term 2	Term 3
12	A Level Algebra Coordinate geometry Binomial Expansion Differentiation	Integration Trigonometry Logarithms and exponentials Vectors	Statistics Mechanics
13	Proof Partial Fractions Higher Algebra Sequences and Series Functions Parametric equations	Higher Trigonometry Higher Differentiation Higher Integration Numerical methods A Level Statistics A Level Mechanics	Exam preparation and revision