

## WMG INTENT

*“Mathematics has beauty and romance. It’s not a boring place to be, the mathematical world. It’s an extraordinary place; it’s worth spending time there”*

— Marcus du Sautoy, British mathematician

### Maths Curriculum Intent

By the end of their learning journey in maths, we intend for our students to be expert problem solvers who are able to reason, interpret mathematical literature, communicate mathematical concepts and model real-life situations using mathematics.

Students will develop skills in numeracy, logical reasoning, mathematical resilience, critical analysis, interpreting maths, and mathematical modelling.

Students will develop knowledge and understanding of the main branches of mathematics: number, fractions, decimals and percentages, algebra, calculus, geometry, trigonometry, statistics and probability.

Maths at WMG Academy is special because we embed life skills lessons into our curriculum, giving students exposure to – sometimes surprising – contexts in which maths can be used. We also push the most able to new heights through a focus on mathematical rigor, appropriate challenge, and powerful enrichment opportunities. We offer further maths at GCSE and are able to offer entrance exam support to those students looking to go to top universities.

Beyond the curriculum, we give students the opportunity to participate in various maths challenges, including the intermediate and senior individual challenges, as well as any relevant Olympiads. We also encourage and support students participating in team challenges, including the Maths Team Challenges, Ritangle, and the National Cipher Challenge.

### School Curriculum Intent

At WMG academy our curriculum intent is to provide a STEM focussed curriculum that prepares pupils for the world of work, we are business led; as such we provide a rigorous, expertly sequenced curriculum with engineering at the heart. Alongside the curriculum we have a nurturing pastoral support team providing enrichment and guidance, thoroughly preparing students to be career ready.

### School Mission

WMG Academy aims to send students into the world with a professional attitude, an understanding of business and a mature approach to work.

Our ‘business-like, business-led’ ethos gives students a head start. Employers pay for apprentices to study and work, with many commanding generous starting salaries in secure industries.