

The Maths curriculum looks to develop students ability to contextualise their knowledge in to real-world terms e.g. currency exchange, instead of an autopilot rote-learning approach. We look to develop independent logical thinkers who are able to problem solve and provide solutions, as opposed to producing students who can simply remember a formula.

“To every problem, there is a solution”

### KS3

#### Year 7

Students build strong foundations in Number, Algebra, Geometry, Statistics, and Probability by developing arithmetic skills with whole numbers, decimals, fractions, percentages, and ratios, while also exploring place value, measurement, time, and money.

#### Year 8

Students deepen their understanding of Number, Algebra, Geometry, and Data handling. They develop fluency with operations involving whole numbers, decimals, fractions, percentages, and negative numbers, including rounding and using significant figures. Topics include powers and roots, estimation, ratio, and proportion.

### KS4

#### Year 9

Students strengthen core number skills, including working with negative numbers, decimals, rounding, and the four operations. They also look at Algebra through writing and simplifying expressions among the many other functions. Students will also gain an understanding of Geometry and Real-Life problem solving with money, time and measurements. Statistics work is extended through interpreting and creating graphs.

#### Year 10

Students develop skills in data handling, graphs, proportion, geometry, probability, and algebra, working with topics such as averages, coordinates, transformations, scale drawings, and constructions. They apply mathematics to real-world contexts, including speed, density, pressure, Pythagoras’ Theorem, trigonometry, currency conversion, growth and decay, and compound interest.

#### Year 11

Students consolidate and extend their learning across Number, Algebra, Geometry, and Graphs. Students are encouraged to use their mock exams and classwork to guide focused revision and build confidence ahead of their final assessments.



Topics with the WR logo are directly linked to the Hoe Valley School Work Ready Agenda.

