

Maths 5 Year Curriculum Overview

5 Year Curriculum Intent: All pupils will study Mathematical concepts within the six strands of Algebra, Number, Shape space and measure, Ratio and proportion, Data Handling and Probability. Within each topic area work will be introduced in a logical order with content broken down into “small steps” to reflect the building blocks of Maths. Pupils will develop fluency in reasoning and problem solving helping to prepare pupils for the rigorous demands of the subject. Opportunities are given for all pupils to make links between topics. Pupils will develop their skills through varied and intelligent practise to move from novice learners to experts with each “small step”.

	Autumn Term	Spring Term	Summer Term
Year 7	Algebraic thinking and Place value & proportion	Applications of number and Directed number & fractional thinking	Lines and angles and Reasoning with number
5 Year Links	Year 8 – Algebraic Techniques and Proportional reasoning Year 9 – Reasoning with Algebra and reasoning with proportion Year 10 – Developing Algebra and Proportions and proportional change Year 11 - Algebra	Year 7 – Reasoning with number Year 8 – Developing number Year 9 – Reasoning with number Year 10 – Using number Year 11 - Reasoning	Year 7 – Application of number Year 8 – Developing number and developing Geometry Year 9 – Reasoning with number and reasoning with Geometry Year 10 – Using number and Geometry Year 11 - Reasoning
School Curriculum Links	Science – Standard form Computing – Adding formulae to spreadsheets, binary	Science – Rearranging equations	Science – calculating the mean
Year 8	Proportional reasoning and Representations	Algebraic techniques and Developing number	Developing geometry and Reasoning with data
5 Year Links	Year 7 – Proportional reasoning Year 9 –Reasoning with proportion and representations Year 10 –Proportions and proportional change Year 11 - Reasoning	Year 7 – Algebraic Thinking and Reasoning with number Year 9 – Reasoning with Algebra and reasoning with number Year 10 – Developing Algebra and Using number Year 11 – Algebra and reasoning	Year 7 – Lines and angles Year 9 –Reasoning with Geometry Year 10 – Geometry and delving into data Year 11 - Reasoning
School Curriculum Links	Science – Magnification Science - probability	Science – Standard form Science – Use of formulae Science – Rearranging equations	Geography – Graphs and Statistics
Year 9	Reasoning with algebra and constructing in 2 and 3 dimensions	Reasoning with number and Reasoning with geometry	Reasoning with proportion and Representations
5 Year Links	Year 7 – Algebraic Thinking and Lines and angles Year 8 – Algebraic Techniques and Developing Geometry Year 10 – Developing Algebra and Geometry and Similarity Year 11 – Algebra and Reasoning	Year 7 – Application of number and Lines and Angles Year 8 – Developing number and developing Geometry Year 10 – Using number and Geometry Year 11 - Reasoning	Year 7 – Proportional reasoning Year 8 –Proportional reasoning and representations Year 10 –Proportions and proportional change Year 11 - Reasoning
School Curriculum Links	Science – Rearranging equations	Science – Percentage change Geography – Percentage change Business – Percentage change Physics – Pythagoras’ Theorem	Physics – Speed-Distance-Time Physics – Density
Year 10	Similarity and Developing Algebra	Geometry and Proportions and proportional change	Delving into data and Using Number

5 Year Links	Year 7 – Algebraic Thinking and Lines and angles Year 8 – Algebraic Techniques and Developing Geometry Year 9 – Reasoning with Algebra and Geometry and Similarity Year 11 – Algebra and Reasoning	Year 7 – Lines and angles and Proportional reasoning Year 8 –Developing Geometry and Proportional reasoning and representations Year 9- Reasoning with Geometry and reasoning with Proportions and representations Year 11 - Reasoning	Year 7 – Application of number Year 8 – Reasoning with data and Developing number Year 9 – Reasoning with number Year 11 - Reasoning
School Curriculum Links	DT – Trigonometry Biology – surface area to volume ratio.	Physic – Vectors Science – Percentage change Geography – Percentage change Business – Percentage change DT – Volume	Geography – Graphs and Statistics
Year 11	Graphs and Algebra	Reasoning and Revision and Communication	Revision and Exam preparation
5 Year Links	Year 7 – Algebraic Thinking Year 8 – Algebraic Techniques Year 9 – Reasoning with Algebra Year 10 – Developing Algebra	Links with all units from year 7 - 11	Links with all units from year 7 - 11
School Curriculum Links	Science – Rearranging equations	Physics – Speed-Distance-Time, acceleration, velocity Physics – Density and pressure	N/A