

Maths Phase One Curriculum

Overview:

Year 7 and 8 students will follow the White Rose scheme of learning which will provide access to all the objectives from the National Curriculum. The scheme is made of units that are designed to be taught for a period of between 1 and 3 weeks to allow students to spend enough time to get a deep understanding of the topic being covered. All groups will cover the units at the same time. The scheme has been designed to allow for the interleaving of skills, progress is made through the units so that the students' understanding and knowledge is reinforced and extended. Students are given opportunities throughout the scheme to develop their written and mental arithmetic, however the scheme also allows for calculator skills to be developed. There is a mini assessment for each unit to check for understanding of the key skills throughout the year. There are also three exams to be taken three times in the year. The exams cover all topics that the students have been taught through the course.

Content:

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	Algebraic Thinking <ul style="list-style-type: none"> Sequences Algebraic notation Equality & equivalence	Place Value & Proportion <ul style="list-style-type: none"> Ordering integers & decimals FDP equivalence	Application of Number <ul style="list-style-type: none"> Problems with addition & subtraction Problems with multiplication & division Fractions & percentages of an amount	Directed Number <ul style="list-style-type: none"> Operations & equations with directed number Fractional thinking Addition and subtraction of fractions amount	Lines and Angles <ul style="list-style-type: none"> Constructing, measuring & using geometric notation Develop geometric notation 	Reasoning with Number <ul style="list-style-type: none"> Developing number sense Sets & Probability Prime numbers & Proof

Year 8	Proportional Reasoning <ul style="list-style-type: none"> Ratio & Scale Multiplicative change Multiplying & dividing fractions	Representations <ul style="list-style-type: none"> Working in the cartesian plane Collecting and representing data Tables 	Algebraic technique <ul style="list-style-type: none"> Brackets, equations & inequalities Sequences Indices 	Developing number <ul style="list-style-type: none"> Fractions & Percentages Standard index form Number sense	Developing Geometry <ul style="list-style-type: none"> Angles in parallel lines & polygons Area of trapezia & circles Lines of symmetry & reflection	Reasoning with Data <ul style="list-style-type: none"> The data handling cycle Measure & location
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Year 9	Reasoning with Algebra <ul style="list-style-type: none"> Straight lines graphs Forming & solving equations Conjecture 	Constructing in 2D and 3D <ul style="list-style-type: none"> Three dimensional shapes Construction & Congruency 	Reasoning with Number <ul style="list-style-type: none"> Numbers Using Percentages Maths & Money 	Reasoning with Geometry <ul style="list-style-type: none"> Deduction Rotation & Translation Pythagoras Theorem 	Reasoning with proportion <ul style="list-style-type: none"> Enlargement & similarity Solving ratio & proportion problems Rates 	Representation and Revision <ul style="list-style-type: none"> Probability Algebraic representation Revision
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