



Year 10 Foundation Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Securing Number, Numerical Representations and Ratio		Ratio, Probability and Equations and Inequalities		Standard Form, Functions and Graphs, Proportion and Rates of Change	
Knowledge Covered	Securing number <ul style="list-style-type: none"> • Four rules • Power Notation • Roots • Types of number • HCF and LCM • Rounding and truncation • Error interval 	Numerical Representations <ul style="list-style-type: none"> • Working with fractions • Percentages • Percentage increase and decrease • Multipliers • Reverse percentages • Interest Ratio <ul style="list-style-type: none"> • Simplifying a ratio • Sharing into a ratio 	Ratio <ul style="list-style-type: none"> • Ratio with fractions • Ratio problems Probability <ul style="list-style-type: none"> • Single and combined events • Venn Diagrams • Sample space • Two-way tables • Set notation • Tree diagrams • Expected outcomes • Relative Frequency 	Equations and Inequalities <ul style="list-style-type: none"> • Collecting like terms • Expand and simplify brackets • Factorise • Substitution • Solving linear equations • Simultaneous equations • Solving inequalities • Solving double inequalities 	Standard Form <ul style="list-style-type: none"> • Converting Standard Form • Calculating with Standard Form Functions and graphs <ul style="list-style-type: none"> • Coordinates • $y=mx+c$ • Equation between 2 points • Different types of graphs • Solving quadratics using graphs • Distance time graphs 	Proportion and rate of change <ul style="list-style-type: none"> • Scale factors and maps • Converting units • Direct proportion • Inverse Proportion • Growth and decay
Online Resources	Sparx Maths BBC bitesize					



Year 10 Higher Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Numerical Representations, Ratio and Proportion and Probability		Probability, Expressions, Equations and Inequalities and Numerical Powers		Functions and Graphs, Shape and Measure, Analysing Data	
Knowledge Covered	<p>Numerical representations</p> <ul style="list-style-type: none"> • Operations with Fractions, Decimals and Percentages • Recurring Decimals • Prime factorisation • HCF and LCM • Product Rule • Bounds <p>Ratio and Proportion</p> <ul style="list-style-type: none"> • Linking fractions, ratio and proportion • Simplifying Ratio • Sharing Ratio • Solving Problems with Ratio 	<p>Ratio and Proportion</p> <ul style="list-style-type: none"> • Using Proportion • Creating direct proportion equations • Creating inverse proportion equations • Graphs of proportion <p>Probability</p> <ul style="list-style-type: none"> • Basic probability • Tree diagrams • Venn Diagrams • Relative frequency 	<p>Probability</p> <ul style="list-style-type: none"> • Two-way Tables • Conditional Probability • Independent events <p>Expressions, equations and inequalities</p> <ul style="list-style-type: none"> • Expressions and Identities • Manipulating expressions • Factorising • Solving quadratics 	<p>Expressions, equations and inequalities</p> <ul style="list-style-type: none"> • Solving Inequalities • Simultaneous Equations <p>Numerical Powers</p> <ul style="list-style-type: none"> • Index Laws • Writing Standard Form • Calculating with Standard Form • Simplifying Surds • Calculating with Surds 	<p>Functions and graphs</p> <ul style="list-style-type: none"> • Function notation • Inverse Functions • Composite Functions • Proof • Straight line graphs • Parallel and perpendicular lines • Tangents and Circles • Inequalities regions <p>Shape and Measure</p> <ul style="list-style-type: none"> • Plans and elevations • Pythagoras • Trigonometry 	<p>Shape and Measure</p> <ul style="list-style-type: none"> • Complex Trigonometry • Perimeter and Area • Volume and Surface Area • Similarity • Congruence <p>Analysing data</p> <ul style="list-style-type: none"> • Averages from frequency tables • Averages from grouped frequency tables • Use averages and measures of spread to describe and compare data sets
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Year 11 Foundation Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Ratio and Proportion, Probability, Data, Shape and Measure, Standard Form		Sequences, Transformations, Constructions	Address gaps in subject knowledge as evidenced by MOCKs		
Knowledge Covered	<p>Ratio and Proportion</p> <ul style="list-style-type: none"> • Simplifying Ratio • Sharing ratio • Ratio and Fractions <p>Probability</p> <ul style="list-style-type: none"> • Single and combined events • Two-way Tables • Tree Diagrams • Venn Diagrams <p>Data</p> <ul style="list-style-type: none"> • Averages from lists • Averages from tables <p>Shape and Measure</p> <ul style="list-style-type: none"> • Perimeter of 2D shapes • Area of 2D shapes • Volume 	<p>Shape and Measure</p> <ul style="list-style-type: none"> • Surface Area • Plans and Elevations • Pythagoras • Trigonometry <p>Data</p> <ul style="list-style-type: none"> • Scatter graphs • Bar charts • Pictograms • Pie charts <p>Standard Form</p> <ul style="list-style-type: none"> • Converting Standard Form • Calculating Standard Form 	<p>Sequences</p> <ul style="list-style-type: none"> • Generating Sequences • Nth Term • Special Sequences <p>Transformations</p> <ul style="list-style-type: none"> • Translation • Reflection • Rotation • Enlargement • Describing transformations <p>Constructions</p> <ul style="list-style-type: none"> • Constructing Triangles • Bisecting lines and angles • Loci 			
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Year 11 Higher Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Numerical Representations, Ratio and Proportion and Probability		Probability, Expressions, Equations and Inequalities and Numerical Powers	Address gaps in subject knowledge as evidenced by MOCKs		
Knowledge Covered	<p>Numerical representations</p> <ul style="list-style-type: none"> • Percentages • Simplify Surds • Calculate with Surds <p>Shape and Measure</p> <ul style="list-style-type: none"> • Calculate area • Calculate Surface Area • Calculate Volume <p>Data</p> <ul style="list-style-type: none"> • Scatter graphs • Averages from tables • Cumulative Frequency • Box Plots • Histograms 	<p>Standard Form</p> <ul style="list-style-type: none"> • Convert Standard Form • Calculate Standard Form • Index Laws <p>Ratio and Proportion</p> <ul style="list-style-type: none"> • Unitary Ratio • Fractions, decimals, percentages, Ratio • Using Scales <p>Graphs</p> <ul style="list-style-type: none"> • Types of Graph • Transforming Graphs 	<p>Shape and Space</p> <ul style="list-style-type: none"> • Trigonometry • Vectors <p>Graphs</p> <ul style="list-style-type: none"> • Velocity graphs • Instantaneous Rate of Change • Acceleration <p>Proportion</p> <ul style="list-style-type: none"> • Using Proportion • Creating proportion equations • Graphs of proportion <p>Iteration</p> <ul style="list-style-type: none"> • Iteration 			
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