



Year 7 Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Integer number structures, introducing algebra and measurements		Numerical representations and Formulae and Sequences		Area and transformation and introducing ratio	
Knowledge Covered	Integer number structures <ul style="list-style-type: none"> • Four rules • Multiples, factors, roots, powers and primes • Order of operations • Directed numbers • Rounding and estimation 	Introducing algebra <ul style="list-style-type: none"> • Algebraic notation • Simplifying expressions • Solving simple equations Measurements <ul style="list-style-type: none"> • Properties of 2D and 3D shape (including symmetry) • Time • Metric conversions • Properties of angles • Angle reasoning • Construction of basic 2D shapes 	Numerical representation <ul style="list-style-type: none"> • Decimals • Fractions • FDP • Percentages • Powers and roots • Prime factor decomposition • HCF and LCM 	Formulae and sequences <ul style="list-style-type: none"> • Substitution and formulae • Functions • Sequences 	Area and transformation <ul style="list-style-type: none"> • Area of 2D shapes • Tessellation • Transformation of 2D shapes 	Introducing ratio <ul style="list-style-type: none"> • Ratio notation • Relationship between fraction and ratio • Sharing into ratio
Online Resources	Sparx Maths BBC bitesize					



Year 8 Maths Curriculum

	Autumn 1	Autumn 2	Spring Term 1	Spring Term 2	Summer 1	Summer 2
Topic	Equations, inequalities and graphs	Estimating	Rates of change	Statistics	Angles and 3D shapes	
Knowledge Covered	<ul style="list-style-type: none"> Forming and solving equations Representing and solving inequalities Linear graphs and parallel lines 	<ul style="list-style-type: none"> Rounding Estimation Bounds 	<ul style="list-style-type: none"> Scales and maps Rates of change Ratio notation Relationship between fraction and ratio Direct and Inverse proportion (including with algebra and graphs) 	<ul style="list-style-type: none"> Construct and interpret graphs Mean, Mode and median and range including outliers Scatter graphs (including best fit and interpolation/extrapolation) 	<ul style="list-style-type: none"> Exterior and interior angles in polygons Angles in parallel lines Reasoning with angles Area and volume (including circles, composites, prisms) 3D nets and surface area (including prisms) 	
Online Resources	Sparx Maths BBC bitesize					



Year 9 Maths Curriculum

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic	Quadratics and Probability	Constructions, Congruence and Pythagoras	Ratio and Proportion	Simultaneous Equations and Powers	Similarity and Trigonometry Numbers in context	
Knowledge Covered	<p>Quadratics</p> <ul style="list-style-type: none"> • Expanding quadratic expressions including those with more than two binomials • Plotting quadratics <p>Probability</p> <ul style="list-style-type: none"> • Theoretical and experimental probability • Single and combined events • Venn diagrams • Sample spaces and two-way tables • Tree diagrams 	<ul style="list-style-type: none"> • Construction • Congruence • Loci • Pythagoras' theorem 	<ul style="list-style-type: none"> • Percentage change problems • Simple interest • Problem-solving with ratio and proportion 	<ul style="list-style-type: none"> • Linear simultaneous equations (graphical and algebraic) • Index notation 	<p>Similarity and trigonometry</p> <ul style="list-style-type: none"> • Similar shapes • Area and volume of similar shapes • Right-angled trigonometry <p>Numbers in context</p> <ul style="list-style-type: none"> • Standard form • Problem-solving with number 	
Online Resources	Sparx Maths BBC bitesize					