

Year 10 Curriculum Map 2017/2018

Year 10	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 10 Higher Topics						
Textbook – Edexcel GCSE (10-1) Mathematics Higher Students Book. ISBN: 1078-1-44710-8020-10						
10ad1 10ad2 10ad3 10ad4	<p>Ch9 - Equations & Inequalities (04/09/17)</p> <ul style="list-style-type: none"> Solving quadratic equations 1 Solving quadratic equations 2 Completing the square Solving simple simultaneous equations More simultaneous equations Solving linear and quadratic simultaneous equations Solving linear inequalities <p>Ch10 – Probability (09/10/17)</p> <ul style="list-style-type: none"> Combined events Mutually exclusive events Experimental probability Independent events & tree diagrams Conditional probability Venn diagrams & set notation 	<p>Ch19 - Proportion & Graphs (13/11/17)</p> <ul style="list-style-type: none"> Direct proportion More direct proportion Inverse proportion Exponential functions Non-linear graphs Translating graphs of functions Reflecting & stretching graphs of functions 	<p>Ch11 - Multiplicative Reasoning (01/01/18)</p> <ul style="list-style-type: none"> Growth and decay Compound measures More compound measures Ratio & proportion <p>Ch12 - Similarity & Congruence (05/02/18)</p> <ul style="list-style-type: none"> Congruence Geometric proof & congruence Similarity More similarity Similarity in 3D solids 	<p>Ch13 - More Trig (12/03/18)</p> <ul style="list-style-type: none"> Accuracy Graph of the sine function Graph of the cosine function The tangent function Calculating areas & the sine rule The cosine rule & 2D trigonometric problems Solving problems in 3D Transforming trigonometric graphs 1 Transforming trigonometric graphs 2 	<p>Ch14 - Further Stats (07/05/18)</p> <ul style="list-style-type: none"> Sampling Cumulative frequency Box plots Drawing histograms Interpreting histograms Comparing & describing populations 	<p>Ch15 - Equations & Graphs (09/07/18)</p> <ul style="list-style-type: none"> Solving simultaneous equations graphically Representing inequalities graphically Graphs of quadratic functions Solving quadratic functions graphically
Year 10 Foundation Topic						
Textbook – Edexcel GCSE (10-1) Mathematics Foundation Students Book ISBN: 1078-1-44710-80110-3						
10ad5 10ad6	<p>Chapter 9 Graphs (04/09/17)</p> <ul style="list-style-type: none"> Coordinates Linear graphs Gradient $y = mx + c$ Real-life graphs Distance-time graphs More real-life graphs <p>Chapter 10 Transformations</p>	<p>Chapter 11 Ratio & proportion (13/11/17)</p> <ul style="list-style-type: none"> Writing ratios Using ratios 1 Ratios & measures Using ratios 2 Comparing using ratios Using proportion Proportion & graphs Proportion problems 	<p>Chapter 12 Right angled triangles (01/01/18)</p> <ul style="list-style-type: none"> Pythagoras' theorem 1 Pythagoras' theorem 2 Trigonometry: the sine ratio 1 Trigonometry: the sine ratio 2 Trigonometry the cosine ratio Trigonometry the tangent 	<p>Chapter 14 Multiplicative reasoning (19/03/18)</p> <ul style="list-style-type: none"> Percentages Growth & decay Compound measures Distance, speed & time Direct & inverse proportion 	<p>Chapter 15 Constructions & loci (14/05/18)</p> <ul style="list-style-type: none"> 3D solids Plans & elevations Accurate drawings 1 Scale drawings & maps Accurate drawings 2 Constructions Loci and regions Bearings 	<p>Chapter 16 Quadratic equations & graphs (09/07/18)</p> <ul style="list-style-type: none"> Expanding double brackets Plotting quadratic graphs Using quadratic graphs Factorising quadratic equations Solving quadratic equations

Year 10	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
	<p>(09/10/17)</p> <ul style="list-style-type: none"> • Translation • Reflection • Rotation • Enlargement • Describing enlargements • Combining transformations 		<p>ratio</p> <ul style="list-style-type: none"> • Finding lengths and angles using trigonometry <p>Chapter 13 Probability (05/02/18)</p> <ul style="list-style-type: none"> • Calculating probability • Two events • Experimental probability • Venn diagrams • Tree diagrams • More tree diagrams 			