

Year 9 Curriculum Map 2017/2018

Year 9	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Year 9 Higher Topics <i>Textbook – Edexcel GCSE (9-1) Mathematics Higher Students Book. ISBN: 978-1-4479-8020-9</i>						
9ad1 9ad2 9ad3 9ad4	<p>Chapter 1 Number(04/09/17)</p> <ul style="list-style-type: none"> • Number problems & reasoning • Place value & estimating • HFC & LCM • Calculating with powers (indices) • Zero, negative & fractional indices • Powers of 10 & standard form • Surds <p>Chapter 2 Algebra (16/10/17)</p> <ul style="list-style-type: none"> • Algebraic indices • Expanding & factorising • Equations • Formulae • Linear sequences • Non-linear sequences • More expanding & factorising 	<p>Chapter 3 Interpreting & representing data (27/11/17)</p> <ul style="list-style-type: none"> • Statistical diagrams 1 • Time series • Scatter graphs • Line of best fit • Averages & range • Statistical diagrams 2 	<p>Chapter 4 Fractions, ratio & percentages (01/01/18)</p> <ul style="list-style-type: none"> • Fractions • Ratios • Ratio & proportion • Percentages • Fractions, decimals & percentages <p>Chapter 5 Angles & trigonometry (05/02/18)</p> <ul style="list-style-type: none"> • Angle properties of triangles & quadrilaterals • Interior angles of a polygon • Exterior angles of a polygon • Pythagoras’ theorem 1 • Pythagoras’ theorem 2 • Trigonometry 1 • Trigonometry 2 	<p>Chapter 6 Graphs (19/03/18)</p> <ul style="list-style-type: none"> • Linear graphs • More linear graphs • Graphing rates of change • Real-life graphs • Line segments • Quadratic graphs • Cubic & reciprocal graphs • More graphs 	<p>Chapter 7 Area & volume (17/05/18)</p> <ul style="list-style-type: none"> • Perimeter & area • Units of accuracy • Prisms • Circles • Sectors of circles • Cylinders & spheres • Pyramids & cones 	<p>Chapter 8 Transformations & construction (09/07/18)</p> <ul style="list-style-type: none"> • 3d solids • Reflections & rotations • Enlargements • Translations & combinations of transformations • Bearings & scale drawings • Constructions 1 • Constructions 2 • Loci
Year 9 Foundation Topic <i>Textbook – Edexcel GCSE (9-1) Mathematics Foundation Students Book ISBN: 978-1-4479-8019-3</i>						
9ad5 9ad6 9ad7	<p>Chapter 1 Number (04/09/17)</p> <ul style="list-style-type: none"> • Calculations • Decimals numbers • Place value • Factors & multiples • Squares, cubes and roots • Index notation • Prime factors <p>Chapter 2 Algebra (16/10/17)</p> <ul style="list-style-type: none"> • Algebraic expressions • Simplifying expressions • Substitution • Formulae • Expanding brackets • Factorising 	<p>Chapter 3 Graphs, tables & charts (27/11/17)</p> <ul style="list-style-type: none"> • Frequency tables • Two-way tables]representing data • Time series • Stem& leaf diagrams • Pie charts • Scatter graphs • Lines of best fit 	<p>Chapter 4 Fractions & percentages (01/01/18)</p> <ul style="list-style-type: none"> • Working with fractions • Operations with fractions • Multiplying fractions • Dividing fractions • Fractions& decimals • Fractions & percentages • Calculating percentages 1 • Calculating percentages 2 <p>Chapter 5 Equations, inequalities & sequences (09/02/18)</p> <ul style="list-style-type: none"> • Solving equations1 • Solving equations 2 	<p>Chapter 6 Angles (26/03/18)</p> <ul style="list-style-type: none"> • Properties of shapes • Angles in parallel lines • Angles in triangles • Exterior & interior angles • More exterior & interior angles • Geometrical problem solving 	<p>Chapter 7 Averages & ranges (14/05/18)</p> <ul style="list-style-type: none"> • Mean 7 range • Mode, median & mean • Types of average • Estimating the mean • Sampling 	<p>Chapter 8 Perimeter, Area & volume (02/07/18)</p> <ul style="list-style-type: none"> • Rectangles, parallelograms & triangles • Trapezia and changing units • Area of compound shapes • Surface area of 3D solids • Volume of prisms • More volume & surface area

Year 9	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
	<ul style="list-style-type: none">• Using expressions & formulae		<ul style="list-style-type: none">• Solving equations with brackets• Introducing inequalities• More inequalities using formulae• generating sequences• using the nth term of a sequence			