Subject: Maths		
Exam Board: Edexcel Maths		
Year Group	**Unit 1**	**Unit 2**	**Unit 3**

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7	- Understand place value and their use in written and mental methods - Apply effective mental and written methods of multiplication and division - Perform calculations with negative numbers and understand the uses of negative numbers in context - Recognise and use relationships between operations, such as factors, multiples, primes, and inverses - Identify and find prime numbers, prime decomposition, LCM and HCF - Calculate percentages of amounts	- Understand equivalent fractions and perform calculations involving fractions - Find equivalent fractions, decimals and percentages, and use them to compare proportional values - Use algebraic notation correctly to set up and derive equations and formulae. Recognise equations, identities and formulae. - Use and interpret the collection of like terms, multiplication rules and expanding brackets to simplify algebraic expressions - Use inverse operations to rearrange or solve equations - Recognise terms, expressions and sequences, and substitute values including decimals, fractions and negatives	- Calculate the perimeter of a range of shapes - Calculate the area of a range of shapes - Accurately draw, measure and name the 3 types of angles - Use geometric reasoning to find missing angles in 2D shapes - Interpret statistical data through calculating the mean, median, mode and range - Understand how to collect and organise data - Construct and interpret a range of graphs - Find and contextualise statistical measures using graphs

Aspiration - Integrity - Pride

	● Ratio & Proportion		
8	● Understand and execute the order of operations ● Negative Numbers ● Apply rounding to estimate the answer to a calculation ● Identify and find powers and roots ● Identify and find prime numbers, prime decomposition, LCM and HCF ● Understand equivalent fractions and perform calculations involving fractions ● Recognise and use relationships between units of measurement and compound measures ● Calculate the area of a range of shapes	● Understand the use of pi and apply it to calculate the area and circumference of circles ● Use and determine the nth term of a linear sequence ● Simplify algebraic expressions by collecting like terms, expanding and factorising ● Use algebraic manipulation to solve multi-step equations including unknowns on both sides and change the subject of a formulae ● Apply algebraic skills to plot linear and quadratic graphs ● Understand and solve linear inequalities ● Find percentages of amounts and percentage increase/decrease using multipliers	● Understand and use the relationship between ratio and proportion and proportional reasoning ● Find unknown angles in parallel lines ● Use protractor and compasses to accurately construct triangles and quadrilaterals ● Use a straightedge and compass to form constructions ● Understand how to identify congruent and similar shapes ● Represent and use 3D shapes in 2D form to calculate surface area ● Calculate the volume of prisms ● Interpret statistical data through calculating the mean, median, mode and range ● Find and contextualise statistical measures ● Use probability rules to describe chance

9	- Apply rounding to estimate the answer to a calculation - Identify and find prime numbers, prime decomposition, LCM and HCF - Using Index Laws ands Standard Form - Understand equivalent fractions and perform calculations involving fractions - Convert between fractions, decimals and percentages - Calculating percentage increase, decrease, reverse, simple interest and compound interest - Ratio and proportion - Representing data	- Probability - Simplify algebraic expressions by collecting like terms, expanding and factorising - Use algebraic manipulation to solve multi-step equations including unknowns on both sides and change the subject of a formulae - Understand and solve linear inequalities - Substitution, further algebraic manipulation & solving simultaneous equations - Use and determine the nth term of a linear sequence - Apply algebraic skills to plot linear graphs - Apply algebraic skills to plot quadratic, cubic and reciprocal graphs and circles	- Calculate area and perimeter of shapes including triangles, quadrilaterals and circles - Represent and use 3D shapes in 2D form to calculate surface area and volume of prisms - Identify and calculate angles in polygons & unknown angles in parallel lines - Using Pythagoras Theorem - Understanding and using trigonometric ratios - Transformations
10 (Foundation)	- Integers and place value - Decimals - Indices, powers and roots - Algebra 'basics' - Expressions and substitution into formulae - Fractions and Percentages	- Equations and Inequalities - Sequences - Properties of shapes, parallel lines and angle facts. - Interior and exterior angles of polygons. - Perimeter, Area and Volume - Real Life Graphs	- Statistics, sampling and the averages - Ratio - Proportion - Pythagoras and Trigonometry - Probability - Plans and Elevations

Aspiration - Integrity - Pride

		● Graphs, Tables and charts	● Straight Line Graphs	● Constructions, loci and bearings
10 (Higher)		● Product rule for counting ● Calculations with bounds ● Standard form ● Surds ● Recurring decimals to fractions ● Repeated percentage change ● Growth and Decay ● Midpoint, Gradient, Distance. ● Equation of a straight line ● Parallel and perpendicular lines ● Factorising, forming and solving quadratics ● Completing the square ● Sequences	● Algebraic fractions ● Sketching quadratics ● Plotting cubic and reciprocal graphs ● Equation of a circle ● Simultaneous linear equations ● Simultaneous nonlinear equations ● Linear and Quadratic inequalities ● Compound measures ● Real life graphs & rates of change ● Pythagoras ● Right angled trig. ● Exact values ● Non-right angle trig ● Geometric reasoning	● Compound Area and Perimeter ● Area of circles, sectors, segments & arc lengths ● Surface area and volume (3D) ● Similarity ● Changing ratios ● Algebraic ratio ● Direct and inverse proportion ● Algebraic direct and inverse proportion ● Averages from grouped data ● Histograms ● Box plots ● Cumulative frequency graphs ● Probability ● Set Notation and Venn diagrams
11 (Foundation)		● Multiplicative Reasoning ● Quadratic Equations, expanding and factorising. ● Quadratic equations: graphs ● Circles, cylinders, cones and spheres ● Fractions and reciprocals	● Review and Revision in advance of exams	● Review and Revision in advance of exams

Aspiration - Integrity - Pride

	- Indices and standard form - Transformations - Similarity and Congruence in 2D - Vectors - Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations.		
11 (Higher)	- Changing the subject of more complex formulae, solving equations from algebraic fractions, rationalising surds, proof - Further Statistics - Circle Theorems - Vectors and Geometric Proof - Proportion and Graphs	Review and Revision in advance of exams	Review and Revision in advance of exams