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

Year Group	**Unit 1**	**Unit 2**	**Unit 3**
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 calculations* ● *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 straight edge 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 *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* *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*	*Representing data* *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*

Aspiration - Integrity - Pride

10 (Foundation)	• *Integers and place value* • *Decimals* • *Indices, powers and roots* • *Indices and Standard form* • *Algebra the basics* • *Expressions and substitution into formulae* • *FDP* • *Percentages*	• *Tables, Charts and graphs* • *Pie Charts* • *Scatter graphs* • *Equations and Inequalities* • *Sequences* • *Properties of shapes, parallel lines and angle facts.* • *Interior and exterior angles of polygons.*	• *Real Life Graphs* • *Straight Line Graphs* • *Statistics, sampling and the averages* • *Ratio* • *Proportion* • *Pythagoras and Trigonometry* • *Plans and Elevations* • *Constructions, loci and bearings*
Y10 (Crossover)	• Calculating, checking and rounding • Indices, roots, reciprocals and hierarchy of operations • Factors, multiples, primes, standard form and surds • Algebra 'the basics'	• Sequences • Fractions and Percentages • Ratio and proportion • Polygons angles and parallel lines • Pythagoras and trigonometry • Averages and Range • Representing and interpreting data and scatter graphs	• Graphs, the basics and real life graphs • Linear graphs and coordinate geometry • Quadratic, cubic and other graphs • Perimeter, area and circles • 3D forms, volumes • Accuracy and bounds • Solving Quadratic and Simultaneous Equations • Inequalities • Probability • Transformations and Constructions

Aspiration - Integrity - Pride

			● Similarity and Congruence
10 (Higher)	- Calculating, checking and rounding - Indices, roots, reciprocals and hierarchy of operations - Factors, multiples, primes, standard form and surds - Algebra 'the basics'	- Sequences - Fractions and Percentages - Ratio and proportion - Polygons angles and parallel lines - Pythagoras and trigonometry - Averages and Range - Representing and interpreting data and scatter graphs - Graphs, the basics and real life graphs - Linear graphs and coordinate geometry - Quadratic, cubic and other graphs	- Perimeter, area and circles 3D forms, volumes, cylinders, cones and spheres. - Accuracy and bounds - Solving Quadratic and Simultaneous Equations - Inequalities - Probability - Multiplicative Reasoning - Transformations and Constructions - Similarity and Congruence
11 (Foundation)	*Multiplicative Reasoning* *Quadratic Equations, expanding and factorising.* *Quadratic equations: graphs* *Circles, cylinders,cones and spheres* *Fractions and reciprocals* *Indices and standard form* *Transformations* *Similarity and Congruence in*	Review and Revision in advance of exams	Review and Revision in advance of exams

	2D ● *Vectors* ● *Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations.*		
Y11 (Crossover)	● Multiplicative Reasoning ● Equations and Graphs ● Changing the subject of more complex formulae ● Algebraic fractions ● Rationalising surds ● Further Statistics; cumulative frequency ● Proportion and Graphs	● Review and Revision in advance of exams	● Review and Revision in advance of exams
11 (Higher)	● Changing the subject of more complex formulae, solving equations from algebraic fractions, rationalising surds, proof ● Advanced Trigonometry ● Further Statistics ● Circle Theorems	● Review and Revision in advance of exams	● Review and Revision in advance of exams

Aspiration - Integrity - Pride

	● Vectors and Geometric Proof ● Proportion and Graphs		