Maths Curriculum Overview

Ormiston Shelfield Community Academy

OUTCOMES VALUES CHOICES

	AUTUMN 1	AUTUMN 2	SPRING 1	SPRING 2	SUMMER 1	SUMMER 2
7	**Transition and Number 1** Intervention from baseline/enrichment opportunities **Number 1**	**Number 1** Place value 1 Four operations Accuracy Types of number	**Algebra 1** Definitions Notation Simplification Expanding 1 Substitution 1	**Statistics 1** Tables Charts Diagrams **Ratio and proportion 1** Units	**Geometry and measures 1** Properties of shapes and solids Perimeter Area Volume	**RRRR/Intervention/ DIRT Tasks/Enrichment** End of year assessment.
8	**Number 2** Fractions Indices Order of operations 2	**Algebra 2** Substitution 2 Expanding 2 Factorising Solving Rearranging	**Ratio and proportion 2** Notation Simplifying Sharing Multiplicative relationships Link to fractions	**Geometry and measures 2** Conventions for labelling Angles Polygons Symmetry	**Statistics 2 and Probability** Averages and spread Probability scale Sample space diagrams	**RRRR/Intervention/ DIRT Tasks/Enrichment** End of year assessment.
9	**Number 3** Primes Place value 2 Percentages Accuracy 2 Using a calculator	**Algebra 3** Coordinates Linear graphs Quadratics Sequences	**Ratio and proportion 3** Percentage change Direct/Indirect proportion Speed and Density Scale factors Unit pricing	**Geometry and measures 3** Constructions Transformations Congruence and similarity Pythagoras' theorem Trigonometry	**Statistics 3 and Probability** Venn diagrams Pie charts Scatter graphs (Statistics project)	**RRRR/Intervention/ DIRT Tasks/Enrichment** End of year assessment. **GCSE taster sessions** (Statistics)
10	**GCSE Maths Number** Fractions, Decimals, Percentages, Standard form (*calculations*), Types of number, Indices, *Surds,* Accuracy, Fractions, Approximation	**GCSE Maths Algebra: Manipulation** Simplify, Expand, Factorise, Indices, Solving, Rearranging, *Quadratic manipulation, fractions, more than 2 binomials*	**GCSE Maths Algebra: Graphs & Equations** Graphs: Linear, quadratic *(turning point)*, cubic, reciprocal, *exponential, trigonometric, perpendicular.* Equations: linear, *quadratic*	**GCSE Maths Algebra: Equations, Inequalities & Sequences** Inequalities (*Regions, set notation*), Sequences (*quadratic*) *Equations: simultaneous, simultaneous deriving,* circles	**GCSE Maths Geometry & Measures** Shapes & Solids, Perimeter, Area, Volume, Circles, Symmetry, Plan & Elevation, Pythagoras' theorem, Trigonometry, *Advanced Trigonometry (3D)*	**GCSE Maths Geometry & Measures** Angles, Congruency, Transformations (*graphical & invariance*), Bearings, Vectors 1
11	**GCSE Maths Ratio & Proportion** Ratio, Compound measures, Units, Compound interest, *Growth and decay,* advanced similarity	**GCSE Maths Geometry and Ratio** Direct & inverse proportion, Circles (sectors, arcs, *theorems*), Constructions, Loci, *Kinematics, Rates of change, area under a graph*	**GCSE Maths Statistics & Probability** Circles (sectors, arcs, *theorems*) Probability (*conditional*), Systematic listing, Tables, Charts and Diagrams, Averages and spread, Scatter graphs, Sampling, *Histograms, Cumulative frequency, Box plots*	**GCSE Maths** Quadratics, Simultaneous equations *Vectors 2, Proof, functions, Iteration, Quadratic sequences*	RRRR of targeted content	