Year 10 Foundation Curriculum

Term	Topic	Details
1	Area and perimeter	Area and perimeter of rectangles, parallelograms, triangles and trapeziums, compound shapes, Converting units of length and area
	3D forms	3D shape names and properties, Volume of prisms, Surface area of prisms, Convert units of volume, Problem Solving and multi-step questions
	Algebra recap	Simplify, Terms and Expressions, Substitution, expanding and factorising
	Linear graphs	Coordinates and midpoints, Plot linear graphs, Gradients, y = mx+c, Real Life graphs, Drawing and interpreting, Include conversion graphs and distance-time graphs, Conversion graphs and distance-time graphs
2	Transformations	Reflections, Translations, Rotations. Enlargements – positive, negative and fractional scale factor, Combined Transformations, Describing Transformations
	Ratio	Ratio Notation, Simplifying Ratio – express as fractions and 1:n, Sharing a quantity into a given ratio, Solving ratio problems in context
	Data recap	Sampling, Stem & leaf diagrams, Averages and range from tables
3	Proportion	Unitary method, Scaling up quantities, Direct and inverse proportion, Proportion graphs
	Triangles	Pythagoras: Understand and recall Pythagoras theorem, Calculate missing sides, Calculate missing angles, Problem solve, Trigonometry: Understand and recall trig ratios, Use to calculate sides and angles; exact values, Problem solve, Combined and Mixed problems
4	Probability	Calculate simple probabilities, List Outcomes of events, Experimental Probability, Tree Diagrams, sets and Venn Diagrams
5	Multiplicative reasoning	Percentages, Growth and decay, Repeated % change. Speed, distance & time, Other

		compound Measures, Time intervals, Direct and Inverse Proportion
	Plans, elevations and 3D shapes	Plans & elevations, isometric drawing, nets and 3D shapes
5	Multiplicative reasoning	Percentages, Growth and decay, Repeated % change. SDT, Compound Measures, Time intervals, Direct and Inverse Proportion
	Plans, elevations and 3D shapes	Properties of 3D shapes, Plans and Elevations, accurate drawing (constructing triangles), Scale drawings
6	Constructions, loci and bearings	Constructions, Loci & Bearings including calculations
	Sequences	Generating sequences, nth term of linear sequences, arithmetic, geometric and Fibonacci sequences
	Standard form	Powers of ten, Comparing numbers, Writing standard form, Connecting standard form

Each topic is tested through low stakes testing on a regular basis and students receive feedback and the opportunity to improve.

There are 3 main assessment points in the year.