Y10 and Y11 Plan Foundation Tier

| Unit Number | Unit Name | Topics Covered |
| :---: | :---: | :---: |
| 1 | Number | Place value/Powers of 10 <br> Ordering numbers Standard Form <br> Multiplying and dividing decimals <br> Rounding and significant figures <br> Estimation <br> Error intervals <br> Order of operations <br> Calculator questions <br> Negative number calculations <br> Factors, multiples and primes <br> HCF and LCM <br> Prime factorisation <br> Squares, cubes and roots <br> Laws of indices |
| 2 | Sequences and Graphing | Nth term Non-linear sequences Coordinates and midpoints Drawing linear graphs Equation of a line Quadratic graphs (sketching and features) |
| 3 | Linear Algebra | Collecting like terms <br> Simplifying using laws of indices <br> Expanding and factorising single and double brackets <br> Construct and solve linear equations <br> Solve inequalities <br> Solve simultaneous equations <br> Solve quadratic equations |
| 4 | Fractions and Percentages | Fractions of amounts Calculations with fractions Ordering FDP <br> Percentage of amount Percentage change Reverse percentages Compound percentages |
| 5 | Ratio and Proportion | Simplifying ratio (including $n: 1$ ) <br> Share using ratio <br> Unitary method - recipes, currency, best buy, similar shapes Direct and indirect proportion |
| 6 | Units | Times Metric and imperial units |
| 7 | 2D and 3D Shapes | Shape properties <br> Parts of circles <br> Congruent triangles |


| 8 | Angle Properties | Missing angles <br> Angles in parallel lines <br> Angles in polygons <br> Tessellations |
| :---: | :---: | :---: |
| 9 | Perimeter, Area <br> and Volume | Rectangles, parallelograms, triangles and trapezia <br> Circle area and circumference <br> Circle arc length and sector area <br> Compound shapes |
| 10 | Pythagoras and <br> Trigonometry <br> Volume of cubes, cuboids and prisms |  |
| 11 | Transformations <br> and Vectors | Trigonometry <br> NEW - exact trig values |
| 12 | Symmetry <br> Reflection <br> Cale, Bearings, <br> Constructions <br> and Loci | Rotation <br> Enlargement |
| 13 | Bearings <br> Constructions <br> Loci |  |
| Measures | Speed |  |

