Year 11 LTP FND Tier

Wk	Module 1	Module 2	Module 3	Module 4	Module 5
1	Multiplying Integers Multiplying Decimals Dividing Integers Dividing Decimals Negative numbers in Real life Adding / Subtracting/Multiplying/Dividing Negative numbers	Reverse Percentages Problems Increase/decrease by a percentage Simple Interest	Averages and Range Venn Diagram Introduction Notation Scatter diagrams	Frequency Tables Possibility spaces Sampling Populations Interpreting Real life Table Time Timetables and Distance Tables	Factorising and Solving Quadratics
2	Introduction to Algebraic Notation Simplifying Expressions Expanding Brackets – Three Types Expanding single set of Brackets Expanding two sets of Brackets with sign in the middle Expanding double Brackets	Angles in a triangle Properties of special triangles Angles and Parallel lines Angle sum of Polygons	Simple Tree diagrams Harder Tree diagrams Reading Scales Simple Mathematical Notation Adding Integers and Decimals Subtracting Integers and Decimals	Inverse Operations Money Questions – Non calc and Calc BIDMAS Reciprocal	Roots and turning points of Quadratics
3	Factorisation – Linear Expressions Introduction to Ratio Sharing using Ratio Using Ratio for Recipe Questions	Tally charts and Bar charts Pictograms Two way tables Frequency Trees Pie charts	Introduction to Bounds Coordinates Sketching functions	Calculator Questions Product of Primes Highest common factor/Lowest common multiple Squares, cubes, Roots	Cubic and Reciprocal Graphs
4	Area and Perimeter of Rectangle, Triangle, Parallelogram, Trapezium Area of circle Surface Area of Prisms (cuboid and Triangular Prism) Volume of Prisms	Place Value Ordering Integers Ordering Decimals Factors, Multiples and Primes Introduction to Powers-Indices Index Notation Negative Indices	Solving Equations Solving Simultaneous Equations Algebraically	Solving Equations using flowcharts Midpoint of a line on a graph Rearranging simple formulae Forming formulae and equations	Plans and Elevations Problems on Coordinate Axes Bearings

5	Probability Scale Calculating Probability Listing Outcomes Mutually Exclusive Events Experimental Probability	Function Machines Generating a sequence - term to term Generating a sequence from nth term Finding the nth term Special sequences Fibonacci sequences	Distance – Time Graphs Similar shapes Standard Form	Inequalities on a number line Solving inequalities Properties of solids Nets Reflections Rotations Translations Enlargements	Tangents, Arcs, Sectors, Segments Sectors of a circle
6	Introduction to Fractions Equivalent Fractions Simplifying Fractions Comparing Fractions Adding/Subtracting Fractions Finding Fraction of an amount Multiplying and Dividing Fractions	Ratios, Fractions and Graphs Compound units Compound Interest/ Depreciation Circle Definitions	Angles on a line and at a point Measuring and Drawing angles Drawing a triangle using the protractor Bisecting an angle Constructing Perpendiculars (Bisecting a line From any point) Drawing a triangle using Compasses	Loci Congruent Triangles Vertical line charts Averages from a table	Estimating Answers Error Intervals Mathematical Reasoning
7	Substitution Straight Line Graphs Quadratic Graphs	Simple Geometric Definitions Polygons Symmetries Tessellations and Congruency Names of Angles Geometric Progression	Data – Discrete and continuous Metric Conversions	Time series Stratified sampling Half way values Multiply and Divide by Power of 10 Rounding to the nearest 10,100,1000 Rounding to decimal places Rounding to significant figures	Pyramids Cones Frustums
8	Introduction to Percentages Finding Percentage of an amount- with /without calculator Percentage change	Pythagoras Theorem A simple Approach An Algebraic Approach Line on a graph	Spheres Listing Strategies Finding the equation of a straight line Y=mx+c Gradient and Coordinates	Calculator questions Decimals and Fractions Fractions, Percentages and Decimals Simultaneous equations Graphically	Exact Trigonometric values Introduction to Vectors