

Year 10 Maths Foundation Tier

Module Title:	Module Title:	Module Title:
Number Operations and Algebraic Manipulation and Sequences	Constructing and Interpreting Graphs and Charts, Fractions, Decimals and Percentages and Ratio	Angle Rules, Perimeter, Area Volume and Circles, Co-ordinate Geometry and Linear Graphs, Trigonometry and Probability
<p>Learning Intent for this module:</p> <p>Students will use the 4 operations to work with integers, direct numbers, decimals, fractions and percentages.</p> <p>Students will recognise and use multiples, factors and primes.</p> <p>Students will know and use the laws of indices and will extend this to standard form.</p> <p>Students will revise and extend their skills in algebraic manipulation and will form and solve equations and inequalities.</p> <p>Students will recognise and use algebraic expressions to describe sequences and solve related problems.</p>	<p>Learning Intent for this module:</p> <p>Students will construct and interpret a range of graphs and charts including in context.</p> <p>Students will work with fractions, decimals and percentages and will convert between them.</p> <p>Students will work with the concepts of ratio and proportion and will solve related problems.</p> <p>Students will become familiar with a range of multiplicative reasoning techniques.</p>	<p>Learning Intent for this Module:</p> <p>Students will extend their knowledge of 2-D and 3-D shapes and their properties.</p> <p>Students will understand and use the angle rules including those of polygons and solve related problems.</p> <p>Students will revisit the topics of perimeter, area and volume and will extend this to composite 3-D shapes.</p> <p>Students will work with a range of straight-line graphs, including real-life graphs. They will learn and use co-ordinate geometry formulae.</p> <p>Students will learn and apply Pythagoras' Theorem and trigonometry for right-angled triangles.</p>
<p>Key Content to be learned:</p> <ul style="list-style-type: none"> Integers and Place Value Decimals Factors Multiples and Primes Indices, Powers and Roots Fractions and Reciprocals Indices and Standard Form Algebraic Manipulation 	<p>Key content to be learned:</p> <ul style="list-style-type: none"> Tables, Graphs and Charts Pie Charts Scatter Graphs Statistics, Sampling and Averages Fractions, Decimals and Percentages Percentages Ratio 	<p>Key Content to be learned:</p> <ul style="list-style-type: none"> Properties of Shapes, Parallel Lines and Angle Facts Interior and Exterior Angles of Polygons Perimeter, Area and Volume Real-Life Graphs Straight-Line Graphs Pythagoras' Theorem and Trigonometry

<ul style="list-style-type: none"> • Expressions and Substitution • Equations and Inequalities • Sequences 	<ul style="list-style-type: none"> • Proportion • Multiplicative Reasoning 	<ul style="list-style-type: none"> • Probability
<p>Key tasks for this module:</p> <ul style="list-style-type: none"> • Key Task 1 – Number Operations • Key Task 2 – Indices and Standard Form • Key Task 3 – Expressions and Factorising • Key Task 4 – Equations and Inequalities and Sequences • Key Task 5 – Summative Assessment 	<p>Key tasks for this module:</p> <ul style="list-style-type: none"> • Key Task 1 – Statistical Diagrams • Key Task 2 – Averages • Key Task 3 – Fractions, Decimals and Percentages • Key Task 4 – Ratio and Proportion • Key Task 5 – Summative Assessment 	<p>Key tasks for this module:</p> <ul style="list-style-type: none"> • Key Task 1 – Angle Rules • Key Task 2 – Perimeter, Area and Volume • Key Task 3 – Graphs, Pythagoras' Theorem and Trigonometry • Key Task 4 - End of Year Exam Paper 1 • Key Task 5 - End of Year Exam Paper 2

Year 11 Maths Foundation Tier

Module Title:	Module Title:	Module Title:
Probability, Similarity, Further Trigonometry and Circles	More Complex Algebra and Equations, Functions, Proof, Vectors and Complex Graphs	Revision and Exam Preparation
<p>Learning Intent for this module:</p> <p>Students will carry out and describe the 4 transformations.</p> <p>Students will understand the term similar and congruent and will learn the conditions for each.</p> <p>Students will look at 2-D representation of 3-D shapes, in particular plan and elevation drawings.</p> <p>Students will learn standard constructions and will apply these when studying loci and bearings.</p> <p>Students will extend their knowledge of quadratic expressions by solving equations.</p> <p>Students will revise and extend their knowledge of various compound measures.</p>	<p>Learning Intent for this module:</p> <p>Students will extend their knowledge of volume and surface area to include shapes that are more complex.</p> <p>Students will understand and use vector geometry.</p> <p>Students will re-arrange equations and expressions.</p> <p>Students will study the graphs of harder functions.</p> <p>Students will form and solve simultaneous equations.</p>	<p>Learning Intent for this Module:</p> <p>Students will now consolidate their learning cross the course. Particular revision will focus on areas for improvement identified in mock 2.</p>
<p>Key Content to be learned:</p> <ul style="list-style-type: none"> • Transformations • Similarity and Congruence in 2-D • Plans and Elevations • Constructions, Loci and Bearings • Quadratic Equations – Expanding and Factorising • Compound Measures 	<p>Key content to be learned:</p> <ul style="list-style-type: none"> • Cones, Cylinders and Spheres • Vectors • Re-arranging Equations • Graphs of Quadratic, Cubic and Reciprocal Functions • Simultaneous Equations 	<p>Key Content to be learned:</p> <ul style="list-style-type: none"> • Revision and Consolidation of topics based on Mock Data • Exam Preparation

<p>Key tasks for this module:</p> <ul style="list-style-type: none"> • Key Task 1 – Transformations and Similarity • Key Task 2 – Constructions, Loci and Bearings • Key Task 3 – Quadratic Equations • Key Task 4 – Mock 1 Paper 1 • Key Task 5 – Mock 1 Paper 2/3 	<p>Key tasks for this module:</p> <ul style="list-style-type: none"> • Key Task 1 – Cones, Cylinders and Spheres • Key Task 2 – Vectors • Key Task 3 – Simultaneous Equations • Key Task 4 – Mock 2 Paper 1 • Key Task 5 – Mock 2 Paper 2/3 	<p>Key tasks for this module:</p>