

Year 7 Mathematics Curriculum

KS3 Mathematics- TWT Current

	Cycle One	Cycle Two	Cycle Three
Core Content	<p>NUMBER - Factors and Multiples (1 week)</p> <ul style="list-style-type: none"> - Understanding factors, multiples and primes - Finding the HCF and LCM through listing - Prime factor trees <p>NUMBER - Place Value & Rounding (1 week)</p> <ul style="list-style-type: none"> - Place value for integers and decimals - Rounding to decimal places and significant figures <p>NUMBER - Mental & Written Methods (2 weeks)</p> <ul style="list-style-type: none"> - Mental and written operations (+, -, ×, ÷) - Order of operations <p>NUMBER - Negative Numbers (1 week)</p> <ul style="list-style-type: none"> - Understanding and ordering negative numbers - Operations with negative numbers <p>NUMBER - Time (1 week)</p> <ul style="list-style-type: none"> - Digital and Analogue time - reading, differences - Converting units of time using a calculator <p>ALGEBRA - Algebraic Notation (1 week)</p> <ul style="list-style-type: none"> - Simplifying operations with algebra - Function machines <p>ALGEBRA - Algebraic Manipulations (2 weeks)</p> <ul style="list-style-type: none"> - Constructing expressions - Simplifying expressions by collecting terms - Expanding one and two single brackets - Substitution of integers into expressions / formulae <p>ALGEBRA - Patterns and Sequences (1 week)</p> <ul style="list-style-type: none"> - Understanding sequences - Sequences of diagrams - Term to term and position to term rules 	<p>NUMBER - Types of Number (1 week)</p> <ul style="list-style-type: none"> - Odd, Even, Prime, Square, Cube, Triangular - Powers and roots - Using a calculator <p>NUMBER - Fractions (2 weeks)</p> <ul style="list-style-type: none"> - FDP conversions - Equivalent fractions and ordering - Mixed numbers - Fractions of amounts <p>NUMBER - Percentages of amounts (1 week)</p> <ul style="list-style-type: none"> - Simple percentages of amounts - Percentage increase / decrease <p>ALGEBRA - Solving Linear Equations (3 weeks)</p> <ul style="list-style-type: none"> - Setting up linear equations - Solving one and two step linear equations - Solving linear equations with brackets and indices - Solving harder multi-step linear equations - Application problems <p>RATIO - Fraction Calculations (1 week)</p> <ul style="list-style-type: none"> - Operations involving fractions - Simplifying fractions by cross-cancelling <p>RATIO - Simplifying and sharing (1 week)</p> <ul style="list-style-type: none"> - Simplifying ratios - Sharing into ratios <p>RATIO - Applications (1 week)</p> <ul style="list-style-type: none"> - Writing fractions and percentages as ratios - Scale factors and direct proportion - Application problems 	<p>GEOMETRY - Properties of lines, angles and 2D shapes (1 week)</p> <ul style="list-style-type: none"> - Naming, measuring and drawing angles - Identifying parallel and perpendicular lines - Properties of triangles <p>GEOMETRY - Angle facts (3 weeks)</p> <ul style="list-style-type: none"> - Properties of quadrilaterals - Properties of polygons - Drawing and interpreting pie charts - Basic angle facts - Angles in polygons - Angles in parallel lines <p>GEOMETRY - 2D Shapes - Area and Perimeter (2 weeks)</p> <ul style="list-style-type: none"> - Symmetry of polygons - Perimeter and area of simple shapes - Perimeter and area of compound shapes - Perimeter and area involving algebra - Application questions <p>DATA HANDLING - Averages and spread (1 week)</p> <ul style="list-style-type: none"> - Calculate MMR from raw data - Find missing values in MMR calculations - Interpret and compare MMR of multiple data sets <p>DATA HANDLING - Displaying data (2 weeks)</p> <ul style="list-style-type: none"> - Types of data - Constructing tally charts, frequency tables, bar charts, pictograms and stem and leaf charts, interpreting simple data diagrams <p>DATA HANDLING - Probability (1 week)</p> <ul style="list-style-type: none"> - Probability terminology - Probabilities as fractions
Independent Learning	SPARX Homework (Compulsory, XP Boost & Deepen) Revision	SPARX Homework (Compulsory, XP Boost & Deepen) Revision	SPARX Homework (Compulsory, XP Boost & Deepen) Revision
Assessment	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Extension)	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Extension)	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Extension)



Year 8 Mathematics Curriculum

KS3 Mathematics - TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Number (3 weeks)</u></p> <ul style="list-style-type: none"> - Operations with negative numbers - Order of operations - Introducing standard form - Rounding and estimating <p><u>Ratio, Proportion & Rates of Change (1 week)</u></p> <ul style="list-style-type: none"> - Metric unit conversions of length, mass and volume - Metric unit conversions of area and volume <p><u>Geometry (1 week)</u></p> <ul style="list-style-type: none"> - Area of simple 2D shapes and compound shapes - Surface area of 3D shapes - Volume of 3D shapes <p><u>Algebra (3 weeks)</u></p> <ul style="list-style-type: none"> - Simplifying expressions - Substitution - Simplifying algebraic fractions - Solving equations - Sequences <p><u>Data Handling (2 weeks)</u></p> <ul style="list-style-type: none"> - Designing Questionnaires - Drawing Bar Charts and Line Graphs - Drawing Pie Charts - Scatter Graphs - Stem and Leaf Diagrams - Calculating averages from frequency tables <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Number (3 weeks)</u></p> <ul style="list-style-type: none"> - Factors, multiples, HCF and LCM - Prime factor trees and decomposition - Adding/subtracting with fractions & mixed numbers - Fraction, decimal and percentage conversions - Percentages of amounts - Percentage change <p><u>Data Handling (2 weeks)</u></p> <ul style="list-style-type: none"> - Expected outcomes - Sample Space Diagrams - Tree Diagrams - Venn Diagrams and set notation <p><u>Algebra (3 weeks)</u></p> <ul style="list-style-type: none"> - Simplifying expressions - Solving equations - Inequalities - Simultaneous Equations - Plotting coordinates and finding midpoints - Equations of straight lines <p><u>Geometry (2 weeks)</u></p> <ul style="list-style-type: none"> - Simple angle facts - Angles on parallel lines - Properties of triangles and quadrilaterals - Angles in polygons - Constructing triangles and bisectors <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Number (2 weeks)</u></p> <ul style="list-style-type: none"> - Multiplying/dividing with fractions & mixed numbers - Fractions and percentages of amounts - Percentage change <p><u>Ratio, Proportion & Rates of Change (1 week)</u></p> <ul style="list-style-type: none"> - Writing and simplifying ratios - Writing ratios as FDP - Using ratios and unitary form <p><u>Geometry (2 weeks)</u></p> <ul style="list-style-type: none"> - Circle terminology - Circumference and area of circles and sectors - Volume and surface area of prisms - Pythagoras in 2D and 3D <p><u>Ratio, Proportion & Rates of Change (1 week)</u></p> <ul style="list-style-type: none"> - Time differences - Using timetables and calendars <p><u>Algebra (1 week)</u></p> <ul style="list-style-type: none"> - Real life straight line graphs <p><u>Geometry (2 weeks)</u></p> <ul style="list-style-type: none"> - Speed Distance Time graphs - Transformations - Congruence and similarity <p><u>Ratio, Proportion & Rates of Change (1 week)</u></p> <ul style="list-style-type: none"> - Scale diagrams and bearings <p><u>Independent Learning:</u> SPARX Homework Revision</p>
Assessment	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Extension)	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Extension)	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Extension)



Year 9 Mathematics Curriculum

KS3 Mathematics (Foundation)- TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Rounding, Estimating and Checking (2 weeks)</u></p> <ul style="list-style-type: none"> - Understanding and ordering integers & decimals - Rounding integers & decimals (to d.ps and s.fs) - Estimating calculations - Finding error intervals <p><u>Operations (2 weeks)</u></p> <ul style="list-style-type: none"> - Adding and subtracting integers & decimals - Multiplying and dividing with place value - Using a written method to multiply integers & decimals - Using a written method to divide integers & decimals - Ordering and operations with negative numbers - Order of operations <p><u>Algebraic Expressions (3 weeks)</u></p> <ul style="list-style-type: none"> - Using algebraic notation - Simplifying expressions by collecting like terms - Expanding brackets and simplifying - Expanding 2 or more brackets - Forming equations - Solving equations with one, two, or more steps - Solving equations with the variable on both sides - Substitution with single and multiple variables <p><u>2D & 3D Shapes (3 weeks)</u></p> <ul style="list-style-type: none"> - Finding the area and perimeter of compound shapes, including those containing triangles - Finding the area of triangles - Finding the area of trapeziums and parallelograms - Properties & nets of 3D shapes - Surface area & Volume of cubes and cuboids - Plans and elevations <p><u>Independent Learning:</u> SPARX Homework & Revision</p>	<p><u>Fractions (2 weeks)</u></p> <ul style="list-style-type: none"> - HCF and LCM using factors and multiples - Simplifying & Ordering fractions - Converting mixed numbers and improper fractions - Operations with fractions and mixed numbers <p><u>Decimals and Percentages (2 weeks)</u></p> <ul style="list-style-type: none"> - Converting and ordering FDP - Percentage of amounts with/without a calculator - Percentage change with/without a calculator - Finding percentages and fractions of amounts with a calculator <p><u>Theoretical and Experimental Probability (2 weeks)</u></p> <ul style="list-style-type: none"> - Writing probabilities as FDP - Mutually exclusive events & Calculating probabilities - Expected results from repeated experiments - Theoretical vs. Experimental probability <p><u>Sequences (2 weeks)</u></p> <ul style="list-style-type: none"> - Finding and using term-to-term rules for arithmetic and non-arithmetic sequences - Using Position-to-term rules to generate terms - Finding the nth term of linear sequences and patterns - Geometric sequences <p><u>Straight Line Graphs (2 weeks)</u></p> <ul style="list-style-type: none"> - Reading and plotting coordinates - Using Function notation and finding outputs - Calculating midpoints - Plotting straight line graphs of $x=a$, $y=a$ and $y=x$ - Plotting straight line graphs of $y=mx+c$ - Finding equations of straight line graphs - Rearranging equations of straight-line graphs <p><u>Independent Learning:</u> SPARX Homework & Revision</p>	<p><u>Angles and Shape properties (2 weeks)</u></p> <ul style="list-style-type: none"> - Line and shape properties - Understanding, estimating & measuring angles - Angles on a line, round a point and opposite angles - Properties of triangles, quadrilaterals and polygons - Angles in Parallel lines - Interior & Exterior angles of polygons - Using quadrilateral properties to find angles <p><u>Collecting and Representing Data (3 weeks)</u></p> <ul style="list-style-type: none"> - Types of data, sources of data & Bias - Sampling techniques - Calculating MMR - Drawing & interpreting bar charts - Drawing and interpreting pie charts - Drawing and interpreting stem & leaf diagrams <p><u>Indices, Surds and Prime Factors (3 weeks)</u></p> <ul style="list-style-type: none"> - Index notation & Square roots - Using index laws - Index rules with negative indices & brackets - Standard form with positive & negative indices - Operations with standard form - Standard form with a calculator - Prime Factor Trees & Prime Factor Decomposition - LCM & HCF using Prime Factor Decomposition <p><u>Right-angled Triangles (2 weeks)</u></p> <ul style="list-style-type: none"> - Labelling notation for vertices and angles - Pythagoras' Theorem in 2D incl. Problem solving - Understanding sin, cos and tan - Finding unknown sides and angles - Exact trig values for 0, 30, 45, 60 and 90 <p><u>Independent Learning:</u> SPARX Homework & Revision</p>
Assessment	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Core and Higher)</p> <p>Past GCSE paper (Foundation)</p>	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Core and Higher)</p> <p>Past GCSE paper (Foundation)</p>	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Core and Higher)</p> <p>Past GCSE paper (Foundation)</p>

Year 9 Mathematics Curriculum

KS3 Mathematics (Higher)- TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Rounding, Estimating and Checking (2 weeks)</u></p> <ul style="list-style-type: none"> - Operations with integers & decimals - Product rule for counting - Rounding integers & decimals (d.p. & sig.fig) - Estimating calculations & error intervals - Truncating decimals <p><u>Roots, Indices and Standard Form (3 weeks)</u></p> <ul style="list-style-type: none"> - 4 operations and negative numbers - Order of operations, powers & roots - Index rules - positive, negative, fractional indices - Extended calculator use with index form - Standard form with positive & negative indices - Operations with standard form - Standard form with a calculator <p><u>Algebraic Expressions (3 weeks)</u></p> <ul style="list-style-type: none"> - Using algebraic notation - Collecting like terms incl. powers - Simplifying expressions using index laws - Expanding brackets (two/three) and simplifying - Factorising expressions incl. two brackets - Difference of two squares - Simplifying algebraic fractions - Adding and subtracting algebraic fractions - Substituting into expressions & formulae <p><u>2D & 3D Shapes (2 weeks)</u></p> <ul style="list-style-type: none"> - Area of triangles, trapeziums and parallelograms - Area and perimeter of compound shapes - Problem solving with Pythagoras' Theorem - Surface area & Volume- cubes, cuboids, prisms - Plans and elevations <p><u>Independent Learning:</u> SPARX Homework & Revision</p>	<p><u>Fractions (2 weeks)</u></p> <ul style="list-style-type: none"> - Factors & Multiple, HCF & LCM - Prime factor decomposition - Converting between Improper fractions & Mixed numbers - Operations with Fractions & Mixed numbers <p><u>Decimals and Percentages (2 weeks)</u></p> <ul style="list-style-type: none"> - Using FDP and converting between FDP - Recurring decimals to fractions - Percentages of amounts with/without a calculator - Percentage change with/without a calculator and multipliers - Compound interest and decay - Reverse percentages (original values) <p><u>Theoretical and Experimental Probability (2 weeks)</u></p> <ul style="list-style-type: none"> - Calculating probabilities of mutually exclusive events - Theoretical vs. Experimental probability - Sample space diagrams - Frequency trees - Using tree diagrams to find probabilities - Solving problems using venn diagrams - Using venn diagrams and set notation <p><u>Sequences (2 weeks)</u></p> <ul style="list-style-type: none"> - Arithmetic, Quadratic & Special sequences - Using recurrence relations for sequences <p><u>Straight Line Graphs (2 weeks)</u></p> <ul style="list-style-type: none"> - Calculating midpoints & problems involving coordinates - Plotting straight line graphs using table of values - Finding & Interpreting equations of straight line graphs - Equations of straight line from gradient & a point - Equations of straight line from two points - Composite and Inverse functions <p><u>Independent Learning:</u> SPARX Homework & Revision</p>	<p><u>Angles and Shape properties (2 weeks)</u></p> <ul style="list-style-type: none"> - Angles and shape properties - Angles on parallel lines - Interior/Exterior angles in polygons - Similarity & Congruence - Geometric proofs <p><u>Right-angles Triangles (2 weeks)</u></p> <ul style="list-style-type: none"> - Pythagoras' Theorem in 2D & 3D - Understanding sin, cos and tan - Finding unknown sides and angles - Using exact trigonometric values <p><u>Collecting and Representing Data (3 weeks)</u></p> <ul style="list-style-type: none"> - Types of data - Sampling techniques incl. capture/recapture - Calculating MMR - Choosing suitable averages & solving problems - Drawing and interpreting pie charts - Averages from diagrams and frequency tables - Plotting & interpreting scatter graphs & correlation - Drawing & interpreting stem and leaf diagrams <p><u>Indices, Surds and Prime Factors (3 weeks)</u></p> <ul style="list-style-type: none"> - 4 operations and problems with standard form - Index laws - Simplifying surds - 4 Operations with surds & Brackets with surds - Rationalising the denominator - Drawing prime factor trees - HCF/LCM using prime factor trees - Cancelling fractions and using prime factors - Solving problems using prime factor trees <p><u>Independent Learning:</u> SPARX Homework & Revision</p>
Assessment	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Higher) Past GCSE paper (Foundation)	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Higher) Past GCSE paper (Foundation)	Pre-Assessment (Quizizz) and Post-Assessment (Quizizz) Written End of Cycle Assessment (Core and Higher) Past GCSE paper (Foundation)



Year 10 Mathematics Curriculum

GCSE Foundation Mathematics (Edexcel)- TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Number and Algebra Basics (2 weeks)</u></p> <ul style="list-style-type: none"> - Index laws - Standard form - Factors and Multiples - Prime factor decomposition <p><u>Equations, Inequalities and Formula (3 weeks)</u></p> <ul style="list-style-type: none"> - Constructing and solving equations - Simplifying algebraic expressions - Reading, drawing and solving inequalities - Substitution into expressions and formulae - Rearranging formulae <p><u>Ratio, Proportion and Scale (3 weeks)</u></p> <ul style="list-style-type: none"> - Writing and simplifying ratios - Finding missing amounts in ratios - Writing ratios as fractions, decimals and percentages - Sharing amounts into ratios - Drawing and interpreting scale diagrams <p><u>Venn and Tree Diagrams (2 weeks)</u></p> <ul style="list-style-type: none"> - Listing outcomes - Sample space diagrams - Venn diagrams and set notation - Frequency trees - Tree diagrams (independent and dependent) <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Measures and real life graphs (3 weeks)</u></p> <ul style="list-style-type: none"> - Calculations involving time - Understanding timetables and calendars - Converting metric units (including area and volume) - Calculating rates of change (speed, money etc) - Real life graphs - Speed/Distance/Time graphs <p><u>Vectors, transformations and congruence (3 weeks)</u></p> <ul style="list-style-type: none"> - Understanding column vectors - Operations with column vectors - Problem solving with vectors - Translation, Rotation, Reflection and Enlargement - Combinations of Transformations <p><u>Quadratic and Simultaneous equations (4 weeks)</u></p> <ul style="list-style-type: none"> - Simplifying expressions (inc. algebraic fractions) - Expanding and factorising single brackets - Expanding and factorising quadratics - Graphs of quadratic functions - Solving simultaneous equations by elimination - Solving simultaneous equations by substitution - Solving simultaneous equations graphically <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Circles, cylinders, cones and spheres (3 weeks)</u></p> <ul style="list-style-type: none"> - Circle terminology - Circumference and area of circles - Arc lengths and area of sectors - Properties and nets of 3D shapes - Volume of cubes, cuboids, prisms - Volume of cylinders and pyramids - Volume of cones and spheres - Surface area of cubes, cuboids, prisms and pyramids - Surface area of cylinders, cones and spheres <p><u>Averages and Statistical diagrams (3 weeks)</u></p> <ul style="list-style-type: none"> - Understanding frequency tables - Averages from frequency tables - Stem and leaf diagrams - Line graphs - Scatter Graphs and lines of best fit - Averages from diagrams - Frequency polygons - Presenting and making conclusions <p><u>Construction and Loci (2 weeks)</u></p> <ul style="list-style-type: none"> - Constructing triangles and bisectors - Constructing loci - Solving loci problems <p><u>Right angled triangles (2 weeks)</u></p> <ul style="list-style-type: none"> - Pythagoras' Theorem (missing sides and proving) - Trigonometric ratios for missing sides and angles - Exact values of trigonometric ratios <p><u>Independent Learning:</u> SPARX Homework Revision</p>
Assessment	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Core and Higher)</p> <p>Past GCSE paper (Foundation and Higher)</p>	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Core and Higher)</p> <p>Past GCSE paper (Foundation and Higher)</p>	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Core and Higher)</p> <p>Past GCSE paper (Foundation and Higher)</p>

Year 10 Mathematics Curriculum

GCSE Higher Mathematics (Edexcel)- TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Geometry (2 weeks)</u></p> <ul style="list-style-type: none"> - Pythagoras' Theorem (missing sides and proving) - Trigonometric ratios for missing sides and angles - Exact values of trigonometric ratios <p><u>Algebra (3 weeks)</u></p> <ul style="list-style-type: none"> - Solving multi-step equations - Solving equations with variables on both sides - Solving equations involving algebraic fractions - Constructing and solving equations - Writing, drawing, solving and graphs of inequalities - Substitution into formulae - Rearranging formulae - Iterative formula - Algebraic proofs <p><u>Ratio, Proportion & Rates of Change (3 weeks)</u></p> <ul style="list-style-type: none"> - Using ratios to solve problems - Drawing and interpreting scale diagrams - Measuring, calculating and drawing bearings - Constructing loci - Direct & inverse proportion <p><u>Probability (2 weeks)</u></p> <ul style="list-style-type: none"> - Product rule for counting - Venn Diagrams & Set Notation - Venn Diagrams and conditional probability - Tree Diagrams (independent and dependent events) <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Ratio, Proportion and Rates of Change (3 weeks)</u></p> <ul style="list-style-type: none"> - Metric unit conversions (incl. Area and volume) - Calculating rates of change (speed, money etc) - Calculations of density, pressure and speed - Real life graphs (and equations of) - Distance-time graphs and velocity-time graphs. <p><u>Geometry (3 weeks)</u></p> <ul style="list-style-type: none"> - Understanding column vectors - Operations with column vectors - Problem solving with vectors - Geometric proofs with vectors - Translation, Rotation, Reflection and Enlargement - Combinations of Transformations - Congruence (incl. proving congruent triangles) - Unknown sides in similar shapes - Perimeter and area of similar 2D shapes - Surface area and volume of similar 3D shapes - Geometric proofs <p><u>Algebra (4 weeks)</u></p> <ul style="list-style-type: none"> - Simplifying and operations with algebraic fractions - Factorising quadratic expressions - Factorising by completing the square - Solving quadratic equations by factorising, using the quadratic formula and by completing the square - Plotting and solving quadratic graphs - Solving simultaneous equations (elim and subst) - Solving quadratic simultaneous equations <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Geometry (2 weeks)</u></p> <ul style="list-style-type: none"> - Circle terminology - Circumference and area of circles - Arc lengths and area of sectors - Properties and nets of 3D shapes - Volume of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres - Surface area of cubes, cuboids, prisms, cylinders, pyramids, cones and spheres - Volume and surface area of frustums - Volume and surface area of composite shapes <p><u>Data Handling (3 weeks)</u></p> <ul style="list-style-type: none"> - Understanding frequency tables - Averages from frequency tables - Frequency polygons - Histograms - Cumulative Frequency Curves - Box Plots - Time Series graphs - Presenting and making conclusions <p><u>Geometry (5 weeks)</u></p> <ul style="list-style-type: none"> - Trigonometric ratios to find missing sides/angles - Advanced trigonometry (sine & cosine rules) - 3D trigonometry - Graphs of trigonometric functions - Graphs of circles - Circle Theorems <p><u>Independent Learning:</u> SPARX Homework Revision</p>
Assessment	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Foundation and Higher)</p> <p>Past GCSE paper (Foundation and Higher)</p>	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Foundation and Higher)</p> <p>Past GCSE paper (Foundation and Higher)</p>	<p>Pre-Assessment (Quizizz) and Post-Assessment (Quizizz)</p> <p>Written End of Cycle Assessment (Foundation and Higher)</p> <p>Past GCSE paper (Foundation and Higher)</p>



Year 11 Mathematics Curriculum

GCSE Foundation Mathematics (Edexcel) - TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Ratio, Proportion & Rates of Change (1 week)</u></p> <ul style="list-style-type: none"> - Direct proportion (incl. unitary method) - Inverse proportion (incl. unitary method) - Graphical representations of direct and inverse proportion <p><u>Number (2 weeks)</u></p> <ul style="list-style-type: none"> - Percentages of amounts (with a calculator) - Percentage change (with a calculator) - Reverse percentages - Simple and compound interest - Simple and compound decay <p><u>Algebra (2 weeks)</u></p> <ul style="list-style-type: none"> - Solutions to graphs of linear equations - Solving simultaneous equations graphically - Plotting and solving quadratic graphs <p><u>Revision (5 weeks)</u></p> <p>Teacher-led bespoke Scheme of Learning designed to target either Grade 3, 5 or 7 at GCSE.</p> <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Revision (6 weeks)</u></p> <p>Teacher-led bespoke Scheme of Learning designed to target either Grade 3, 5 or 7 at GCSE.</p> <p><u>Exam preparations (4 weeks)</u></p> <p>Pupil-led bespoke Scheme of Learning including revision lessons, Past paper practise and Mock Exams.</p> <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Exam preparations (5 weeks)</u></p> <p>Pupil-led bespoke Scheme of Learning including revision lessons, Past paper practise and Mock Exams.</p> <p><u>Final GCSE Exams</u></p> <p><u>Independent Learning:</u> SPARX Homework Revision</p>
Assessment	Pre-Assessment (Past GCSE Paper, Foundation and Higher) Full PPEs, three Past GCSE Papers from the same year	Weekly past papers in class as preparation for final GCSE exams Full PPEs, three Past GCSE Papers from the same year	Final exams - three 90 minute papers set by Edexcel



Year 11 Mathematics Curriculum

GCSE Higher Mathematics (Edexcel)- TWT Legacy

	Cycle One	Cycle Two	Cycle Three
Core Content	<p><u>Ratio, Proportion & Rates of Change (1 week)</u></p> <ul style="list-style-type: none"> - Direct proportion (incl. unitary method) - Inverse proportion (incl. unitary method) - Graphical representations of direct and inverse proportion <p><u>Number (2 weeks)</u></p> <ul style="list-style-type: none"> - Percentages of amounts (with a calculator) - Percentage change (with a calculator) - Reverse percentages - Simple and compound interest - Simple and compound decay - Exponential growth and decay <p><u>Algebra (4 weeks)</u></p> <ul style="list-style-type: none"> - Sketching, plotting and interpreting quadratic graphs - Interpreting quadratic graphs by completing the square - Solving quadratic equations graphically - Solving simultaneous equations graphically - Sketching, plotting and interpreting cubic, reciprocal and exponential graphs - Estimating gradient and area under non-linear graphs - Translating graphs (including trigonometric graphs) - Reflecting graphs (including trigonometric graphs) - Stretching graphs (including trigonometric graphs) - Translating graphs of circles <p><u>Revision (3 weeks)</u></p> <p>Teacher-led bespoke Scheme of Learning designed to target either Grade 5, 7 or 9 at GCSE.</p> <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Revision (6 weeks)</u></p> <p>Teacher-led bespoke Scheme of Learning designed to target either Grade 5, 7 or 9 at GCSE.</p> <p><u>Exam preparations (4 weeks)</u></p> <p>Pupil-led bespoke Scheme of Learning including revision lessons, Past paper practise and Mock Exams.</p> <p><u>Independent Learning:</u> SPARX Homework Revision</p>	<p><u>Exam preparations (5 weeks)</u></p> <p>Pupil-led bespoke Scheme of Learning including revision lessons, Past paper practise and Mock Exams.</p> <p><u>Final GCSE Exams</u></p> <p><u>Independent Learning:</u> SPARX Homework Revision</p>
Assessment	<p>Pre-Assessment (Past GCSE Paper, Foundation and Higher)</p> <p>Full PPEs, three Past GCSE Papers from the same year</p>	<p>Weekly past papers in class as preparation for final GCSE exams</p> <p>Full PPEs, three Past GCSE Papers from the same year</p>	<p>Final exams - three 90 minute papers set by Edexcel</p>

