

	Term	Topic	Learning Outcomes	Assessment
Year 7	Autumn 1	Unit 1: Shape	• Labelling and Terminology ○ Correctly label shapes, sides, angles, parallel and perpendicular lines. ○ Understand and use terms: congruent, similar, parallel, perpendicular, vertex, edge, and face. • Shape Recognition and Classification ○ Recognise and distinguish congruent and similar shapes by sight. ○ Classify triangles as scalene, isosceles, or equilateral. ○ Identify and label equal-length sides, parallel sides, and right angles on shapes. • Polygons and Quadrilaterals ○ Name and describe properties of quadrilaterals: square, rectangle, rhombus, parallelogram, trapezium, kite, arrowhead. ○ Name polygons up to a decagon. ○ Classify polygons as regular or irregular. • 3D Shapes ○ Know names and properties of cube, cuboid, cone, sphere, cylinder, and pyramid.	Units 1-6 assessed in the Autumn Term Assessment
		Unit 2: Arithmetic	• Place Value and Decimals ○ Understand place value in both integers and decimals. ○ Order decimals accurately. • Arithmetic ○ Solve problems involving addition, subtraction, multiplication and division of integers. ○ Multiply integers and decimals by powers of 10.	
		Unit 3: Negative Numbers	• Understanding and Applying Negative Numbers ○ Use negative numbers in real-life and mathematical contexts. • Comparing and Calculating Differences ○ Find the difference between two numbers, including when negative values are involved. • Zero Pairs ○ Identify and make zero pairs (pairs of numbers that sum to zero). • Operations with Negative Numbers ○ Add, subtract, multiply and divide with negative numbers.	

	Term	Topic	Learning Outcomes	Assessment
Autumn 2		Unit 4: Expressions	• Algebraic Conventions ○ Use correct conventions for expressing the four operations (addition, subtraction, multiplication, division) in algebraic form. • Representing Expressions ○ Represent expressions with unknowns using: ▪ Pictures ▪ Bar models ▪ Function machines ▪ Algebraic notation • Substitution ○ Substitute values into pictures, bar models, function machines, and algebraic expressions.	
		Unit 5: Angle	• Types and Estimation of Angles ○ Identify acute, right, obtuse, and reflex angles. ○ Estimate the size of angles. • Constructing Triangles ○ Construct triangles given two sides and the included angle (SAS). ○ Construct triangles given two angles and the included side (ASA). • Angle Facts and Properties ○ Know that angles on a straight line add up to 180°. ○ Know that angles in a full turn add up to 360°. ○ Recognise that vertically opposite angles are equal. ○ Know that angles in a triangle add up to 180°. ○ Understand the angle properties of isosceles and equilateral triangles. • Angles in Parallel Lines ○ Investigate angles formed by parallel lines. ○ Recognise that corresponding angles are equal. • Bearings ○ Understand that bearings relate to compass points and are measured in a clockwise direction.	
		Unit 6: Decimals	• Arithmetic with Decimals ○ Add, subtract, multiply and divide with decimals accurately. • Order of Operations ○ Apply the correct priority of operations (BIDMAS/BODMAS) when working with integers and decimals.	
	Autumn Term Assessment			

Spring 1	Unit 7: Sequences	• Types of Sequences ○ Identify and find term-to-term rules for: ▪ Linear sequences ▪ Simple geometric sequences ▪ Fibonacci-type sequences • Working with Sequences ○ Continue linear, simple geometric, and Fibonacci-type sequences, including those with negative terms. ○ Find missing terms in linear sequences. ○ Find the nth term of linear sequences. ○ Use the nth term to generate terms in a sequence. ○ Find and use rules for sequences derived from diagrams. • Function Machines ○ Find outputs from one- and two-step function machines. ○ Find missing functions in one- and two-step function machines.	Units 1-14 assessed in the Spring Term Assessment
	Unit 8: Fractions	• Understanding and Converting Fractions ○ Express an amount as a fraction. ○ Convert between mixed numbers and improper fractions. • Equivalence and Simplification ○ Find equivalent fractions. ○ Simplify fractions. • Ordering and Comparing Fractions ○ Order fractions by size. • Operations with Fractions ○ Add and subtract proper fractions, including those with mixed numbers. ○ Multiply a proper fraction by an integer. ○ Multiply a proper fraction by another proper fraction. ○ Divide a proper fraction by an integer. ○ Divide a proper fraction by another proper fraction.	
	Unit 9: Measures	• Conversions ○ Convert between different metric units of length and time ○ Solve real-life and mathematical problems involving length and time • Money ○ Solve problems involving money, such as calculating totals, change, and making comparisons.	

Mathematics Department Key Stage 3

	Term	Topic	Learning Outcomes	Assessment
		Unit 10: 3D	• Visualising and Representing 3D Shapes ○ Match 2D views (plans, elevations) to real-life 3D situations. ○ Draw plans and elevations of 3D shapes. • Drawing 3D Shapes ○ Draw cubes and cuboids on isometric paper for accurate representation. • Understanding Volume ○ Understand that cube units are used to measure volume. ○ Calculate the volume of cubes and cuboids.	

	Term	Topic	Learning Outcomes	Assessment
Spring 2		Unit 11: Equations	• Inverse Operations and Function Machines ○ Find inverse function machines (determine operations that reverse the effect of the original function). ○ Use inverses to find the input of function machines, given the output. ○ Use inverses to solve equations. • Using Algebra Tiles ○ Use algebra tiles to form algebraic expressions, including cancelling zero pairs ○ Use algebra tiles to represent and form equations. ○ Use algebra tiles to solve equations, including those with negative solutions. • Solving Equations ○ Use the balancing method to solve equations.	
		Unit 12: Approximations	• Rounding Whole Numbers and Decimals ○ Round to the nearest 10,100,1000, integer and a specified number of decimal places.	
		Unit 13: Graphs	• Finding and Using Rules for Lines ○ Plot and read coordinates in all 4 quadrants of the coordinate grid. ○ Find rules (equations) for straight lines by inspecting patterns in coordinates. ○ Use function machines to help find more complex rules for straight lines from given coordinates. • Graphing ○ Plot graphs of straight lines by generating coordinates that satisfy the rule/equation. ○ Interpret and sketch graphs to model simple real-life situations (e.g., distance-time graphs).	
		Unit 14: FDP	• Converting Decimals, Fractions & Percentages ○ Use place value to convert decimals and fractions (e.g., $0.7 = 7/10$). ○ Use division to convert fractions to decimals (e.g., $3/8 = 3 \div 8 = 0.375$). ○ Convert fractions out of 100 directly to percentages (e.g., $47/100 = 47\%$). ○ Convert between decimals and percentages (e.g., $0.65 = 65\%$). ○ Convert between common fractions, decimals, and percentages for halves, thirds, quarters, and tenths (e.g., $1/2 = 0.5 = 50\%$).	
	Spring Term Assessment			

	Term	Topic	Learning Outcomes	Assessment
Summer 1		Unit 15: Area & Perimeter	• Common Shapes ○ Calculate the perimeter and area of rectangles, triangles and parallelograms • Compound Shapes ○ Find the area and perimeter of shapes made from combinations of rectangles, triangles, and parallelograms. • Circles ○ Understand that pi (π) is the ratio between the diameter and circumference of a circle. ○ Discover and use the formula for the circumference of a circle ($C = \pi \times \text{diameter}$). ○ Calculate the circumference of a circle.	Units 1-22 assessed in the Y7 Core Exam
		Unit 16: Ratio	• Expressing and Simplifying Ratios ○ Express two or more quantities as a ratio. ○ Find equivalent ratios (e.g., 2:3 is equivalent to 4:6) and simplify ratios to their simplest form. • Sharing and Solving Problems ○ Share an amount in a given ratio (e.g. share £60 in the ratio 2:3). ○ Solve problems involving direct proportion (e.g. if 5 apples cost £2, how much do 8 apples cost?).	
		Unit 17: Probability	• Probability Scale ○ Use words to describe probability (e.g., certain, likely, unlikely, impossible). ○ Understand that the probability scale runs from 0 (impossible) to 1 (certain). ○ Mark events on the probability scale based on how likely they are to happen. • Listing Outcomes ○ List all possible outcomes for single events (e.g., heads or tails for a coin toss). • Calculating Probability ○ Use equally likely outcomes to find the probability of single events. ○ Express probabilities as fractions, decimals, and percentages. • Venn Diagrams ○ Populate Venn diagrams with given information. ○ Find and interpret probabilities of events described in words using Venn diagrams	

	Term	Topic	Learning Outcomes	Assessment
Summer 2		Unit 18: Whole Number	• Calculating with Powers and Roots ○ Know the properties of square numbers, cube numbers, and triangular numbers. ○ Find the first 10 square numbers and triangular numbers, and the first 6 cube numbers. ○ Calculate squares, cubes, and their roots. • Multiples and Factors ○ Find the lowest common multiple (LCM) of two numbers. ○ Find the highest common factor (HCF) of two numbers. • Prime Numbers ○ Recognise prime numbers. ○ Express a number as a product of its prime factors (using factor trees or other methods).	
		Unit 19: Fractions & Percentages	• Fractions of Amounts ○ Calculate fractions of given amounts • Percentages Without a Calculator ○ Calculate percentages of amounts with and without a calculator	
		Unit 20: Transformations	○ Symmetry ○ Identify reflectional and rotational symmetry in 2D shapes. ○ Reflection ○ Reflect shapes in horizontal, vertical and diagonal mirror lines ○ Reflect shapes on a coordinate grid, including across lines given by simple equations e.g. $x=2$, $y=1$). ○ Rotation ○ Rotate shapes around a point on a co-ordinate grid. ○ Translation ○ Translate (move) shapes to new positions using column vectors.	
		Unit 21: Expressions 2	• Forming and Substituting ○ Form algebraic expressions including squares, cubes and roots. ○ Substitute positive and negative values into expressions. • Simplifying Expressions ○ Use algebra tiles to make zero pairs to simplify expressions. ○ Simplify expressions by collecting like terms. • Expanding and Solving ○ Expand single brackets ○ Solve equations by balancing, including those with letters on both sides.	

Mathematics Department Key Stage 3

	Term	Topic	Learning Outcomes	Assessment
		Unit 22: Statistics	• Averages and Range ○ Calculate the mean from a list of numbers, rounding where necessary. ○ Use the mean to compare two sets of data. ○ Calculate the median, mode, and range from a list of numbers. • Data Collection and Presentation ○ Draw and interpret: tally charts and frequency tables; pictograms; bar charts and fractional pie charts.	
	Y7 Core Exam			

Year 8	Autumn 1	Unit 1: Negative Number	• Operations with Negative Numbers ○ Apply rules of BODMAS to add, subtract, multiply and divide with negative decimal numbers	Units 1-8 assessed in the Autumn Term Assessment. Content from Y7 can also be assessed.
		Unit 2: Transformations	• Create and Complete Symmetrical Patterns ○ Make or finish patterns that are symmetrical. • Reflect, Rotate & Translate on a Co-ordinate Grid ○ Reflect shapes across lines given by simple equations e.g. $x=2$, $y=1$. ○ Describe how a shape has been reflected. ○ Rotate shapes around a point by a given angle. ○ Describe how a shape has been rotated. ○ Translate shapes to new positions using a vector. ○ Describe how a shape has been translated using a column vector. • Enlargement ○ Enlarge a shape using a positive integer or fractional scale factor ○ Describe how a shape has been enlarged or reduced using scale factors.	
		Unit 3: Indices	• Evaluate Indices ○ Work out the value of numbers with any powers. ○ Write numbers and calculations using powers. • Simplify Using the Rules for Indices ○ Use the multiplication and division rules to simplify powers.	
		Unit 4: Equations 1	• Balance Equations with Unknowns on Both Sides ○ Solve equations where the unknown appears on both sides, including when the unknowns are positive and/or negative.	

Autumn 2	Unit 5: Fractions	• Add, Subtract, Multiply & Divide with Complex Fractions ○ Perform the four operations with mixed numbers and negative values. ○ Use cross simplification to multiply fractions • Fraction Calculations ○ Find fractions of proper and improper amounts. ○ Determine non-integer answers when calculating with fractions. ○ Increase and decrease quantities by a fractional amount.	
	Unit 6: Statistics 1	• Data Collection and Presentation ○ Complete and interpret two-way tables and frequency trees. ○ Draw and interpret pie charts for any frequency. ○ Plot scatter diagrams. ○ Identify the correlation in scatter diagrams and interpret this as a relationship between variables. ○ Draw lines of best fit and use them to make predictions.	
	Unit 7: Decimals	• Arithmetic with Decimals ○ Understand the impact of multiplying and dividing by 0.1 and 0.01 and use this to complete calculations. • Combined Operations ○ Add, subtract, multiply, and divide positive and negative decimal values using the order of operations.	
	Unit 8: Expressions 1	• Algebraic Manipulation ○ Substitute positive and negative numbers into expressions, including those containing squares and roots. ○ Simplify expressions by collecting like terms. ○ Expand single brackets by applying indices rules. ○ Expand and simplify expressions involving brackets. ○ Factorise expressions into a single bracket by taking out a common factor.	
	Autumn Term Assessment		

Spring 1	Unit 9: Measures	• Conversions ○ Convert between different metric units of mass and capacity. ○ Solve real-life and mathematical problems involving mass and capacity. ○ Convert between miles and km.	Units 1-16 assessed in the Spring Term Assessment. Content from Y7 can also be assessed.
	Unit 10: Probability	• Calculating Probability ○ Calculate the probability of single events. ○ $P(\text{not } A)$ ○ Calculate the number of expected outcomes for single events. • Calculating Relative Frequency ○ Use experiments to find relative frequency. ○ Use relative frequency to calculate the number of expected outcomes. • Combined Events ○ Use systematic listing to find the outcomes of two or more events and use these to calculate probability. ○ Use sample space diagrams to find the outcomes of two events and use these to calculate probability. ○ Calculate the number of expected outcomes for combined events. • Diagrams ○ Use frequency trees, two-way tables and venn diagrams to calculate probability.	
	Unit 11: Approximations	• Rounding ○ Round to a specified number of decimal places and significant figures. • Estimation ○ Estimate calculations by rounding to one significant figure.	
	Unit 12: Sequences	• Term to Term Rules ○ Describe the term-to-term rule for sequences – linear, geometric and Fibonacci types. • n^{th} Term Rules ○ Find the n^{th} term of a linear sequence. ○ Use the n^{th} term to find a particular term in a linear sequence. ○ Find and justify the linear n^{th} term from a diagrammatic situation.	

Spring 2

Unit 13: Ratio

- **Expressing and Simplifying Ratios**
 - Understand and use multiplicative relationships.
 - Solve problems involving equivalent ratios and sharing in a ratio.
- **Proportion**
 - Recognise and apply direct proportion.
 - Understand that the graph that represents direct proportion is linear and crosses through the origin.

Unit 14: Area & Perimeter

- **Common Shapes**
 - Calculate the area of a trapezium.
 - Find missing lengths in rectangles, triangles, parallelograms and trapeziums when given the area.
 - Solve problems involving the area of rectangles, triangles, parallelograms and trapeziums.
- **Circles**
 - Calculate the circumference and area of a circle.
 - Calculate the perimeter and area of semi-circles.
- **Compound Shapes**
 - Find the area and perimeter of shapes made from combinations of rectangles, triangles, parallelograms, trapeziums and circles.

Unit 15: Graphs

- **Finding and Using Rules for Lines**
 - Recognise and draw graphs such as $y = 3$, $x = 2$
 - Plot linear graphs by completing a table of values
 - Use function machines and graphs to represent number patterns
- **Graphing**
 - Plot graphs of straight lines by generating coordinates that satisfy the rule/equation.
 - Interpret and sketch graphs to model simple real-life situations (e.g., distance-time graphs).

Unit 16: Equations 2

- **Balance Equations with Brackets on Both Sides**
 - Solve equations where the unknown appears on both sides with brackets, including when the unknowns are positive and/or negative.

Spring Term Assessment

Summer 1	Unit 17: Whole Number	• Multiples, Factors and Primes ○ Solve problems using the lowest common multiple (LCM) and highest common factor (HCF). ○ Express a number as a product of its prime factors in index notation. • Inequalities ○ Describe and identify inequalities on a number line.	Units 1-24 assessed in the Y8 Core Exam. Content from Y7 can also be assessed.
	Unit 18: Area & Volume	• Circles ○ Find the circumference of circles and parts of circles ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$) ○ Find the area of a circle and parts of circles ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{3}{4}$) • Compound Shapes ○ Find the area and perimeter of shapes made from combinations of rectangles, triangles, parallelograms, trapeziums and circles. • Surface Area & Volume ○ Find the surface area of prisms. ○ Calculate the volume of a prism, including cylinders.	
	Unit 19: Expressions 2	• Algebraic Manipulation ○ Expand and simplify single brackets using indices rules ○ Factorise expressions by taking out a common factor using indices rules ○ Derive fact families from a given equation/formula/calculation ○ Write inverse expressions ○ Expand and simplify double brackets	
	Unit 20: FDP	• Equivalent Fractions, Decimals & Percentages ○ Use equivalent FDP to express values as a proportion.	

Summer 2	Unit 21: Shape & Angle	• Shape Recognition and Classification ○ Recall the side, angle and diagonal properties of common 2D shapes, including polygons and whether they are regular or irregular • Angle Rules ○ Recall and use the facts connected to right-angles, straight lines, full turns, vertically opposite angles, the angle sum of triangles and the angle sum of quadrilaterals. ○ Recognise alternate angles and corresponding angles in parallel lines and know that they are equal. ○ Solve missing angle problems involving parallel lines.	
	Unit 22: Percentages	• Percentages of an Amount ○ Calculate a percentage of an amount including over 100% using efficient methods with and without a calculator. ○ Increase and decrease by a percentage using efficient methods with and without a calculator.	
	Unit 23: Statistics 2	• Averages and Range ○ Use averages and the range to compare data sets. ○ Discuss the advantages/disadvantages of the averages and range. ○ Calculate averages from a stem and leaf diagram. ○ Calculate averages and range from a frequency table. ○ Calculate averages and range from a grouped frequency table. • Data Collection and Presentation ○ Know the difference between discrete and continuous data. ○ Construct and interpret stem and leaf diagrams. ○ Draw frequency polygons and histograms for equal sized groups.	
	Unit 24: Graphs 2	• Gradient & y-intercept ○ State the value of the gradient and y-intercept given an equation of a straight line in the form $y=mx + c$ ○ Draw a line segment with a given gradient ○ State the equation of a straight-line graph on a grid • Quadratic Graphs ○ Draw simple quadratic graphs by completing a table of values	
	Y8 Core Exam		

Year 9	Autumn 1	Unit 1: Number	• Estimation & Bounds ○ Estimate calculations by rounding to one significant figure. ○ State upper and lower bounds. ○ Write error intervals using inequality notation. • Arithmetic ○ Solve problems involving calculating with positive. and negative decimals, fractions and mixed numbers.	Units 1-7 assessed in the Autumn Term Assessment. Content from Y7 & Y8 can also be assessed.
		Unit 2: Constructions	Scale Drawings & Bearings ○ Use a scale to interpret a diagram or map. ○ Measure and draw journeys using bearings and a scale. ○ Use bearings to fix a position. • Constructions ○ Construct triangles that are SAS, ASA or SSS. ○ Bisect a line. ○ Bisect an angle. ○ Construct a perpendicular from a point to a line. ○ Construct a perpendicular from a point on a line. ○ Use loci and constructions to solve problems. • Congruency ○ Recall and use the conditions for congruent triangles.	
		Unit 3: Graphs	• Substitution ○ Substitute into formulae and expressions. ○ Substitute into function notation. • Drawing Graphs and Solving with Graphs ○ Draw linear graphs by completing a table of values. ○ Use linear graphs to solve linear equations ○ Draw quadratic graphs by completing a table of values. ○ Use quadratic graphs to solve simple quadratic equations. • $y = mx + c$ ○ Write the equation of a straight line from a drawn line/graph. ○ State the gradient from a given equation in the form $y=mx+ c$.	

Autumn 2	Unit 4: Ratio	• Ratio ○ Solve problems using equivalent ratios including representing ratios in the form $n:1$ and sharing in a ratio. • Proportion ○ Solve problems involving direct and inverse proportion. ○ Recognise and sketch graphs of direct and inverse proportion. ○ Compare offers to find the best buy. ○ Calculate a speed, distance and time. ○ Calculate a density, mass and volume.	
	Unit 5: Real Life Graphs	• Distance-Time Graphs ○ Interpret distance-time graphs. ○ Know that the gradient of a distance-time graph is the speed. ○ Calculate the gradient and therefore the speed from a distance-time graph. • Gradient of Real-Life Linear Graphs ○ State and interpret the gradient and y-intercept of linear real-life graphs. ○ Give the units of the gradient as a compound unit. • Non-Linear Real-Life Graphs ○ Read values from real life graphs, including those that are linear and those in the form $y = a^x$ and $y = 1/x$	
	Unit 6: Number Properties	• Indices Rules ○ Find the value of numbers written in index notation, including x^0 and x^{-1} ○ Know and use $a^m \times a^n = a^{m+n}$ ○ Know and use $a^m \div a^n = a^{m-n}$ ○ Know and use $(a^m)^n = a^{mn}$ • Standard Form ○ Convert numbers between standard form and normal form.	
	Unit 7: Expressions	• Algebraic Manipulation ○ Expand and simplify single brackets with complex terms using indices rules. ○ Factorise expressions by taking out a common factor of complex terms using indices rules. ○ Expand and simplify double brackets with co-efficients of unknowns greater than 1 ○ Factorise quadratics into double brackets.	
Autumn Term Assessment			

	Spring 1	Unit 8: FDP	▪ Equivalent Fractions, Decimals and Percentages ○ Express a proportion as a fraction, decimal or % ○ Express a proportional change as a fraction, decimal or %	Units 1-14 assessed in the Y9 Core Exam. Content from Y7 & Y8 can also be assessed.
		Unit 9: Shape	• Drawing with 3D Shapes ○ Recall the names and properties of 2D and 3D shapes including their symmetries. ○ Draw 3D shapes on isometric paper. ○ Draw accurate nets of 3D shapes.	
		Unit 10: Equations & Inequalities	• Solving Equations ○ Form and solve linear equations. • Solving Inequalities ○ Solve linear inequalities, including ‘double’ inequalities. ○ Show the solutions to linear inequalities on a number line. • Re-arranging ○ Re-arranging equations and formulae by balancing.	
		Unit 11: Area & Perimeter	• Sectors ○ Calculate the arc length of sectors. ○ Calculate the perimeter of sectors. ○ Calculate the area of sectors.	
	Spring 2	Unit 12: Pythagoras	• Discover and Apply Pythagoras’ theorem ○ Calculate the missing hypotenuse or shorter side in right-angled triangles. ○ Solve problems involving right-angled triangles.	
		Unit 13: Angle	• Angle Rules ○ Solve missing angle problems involving parallel lines and apply facts connected to right-angles, straight lines, full turns, vertically opposite angles, the angle sum of triangles and the angle sum of quadrilaterals. • Angles in Polygons ○ Calculate missing exterior and interior angles in irregular polygons.	
Unit 14: Percentages		• Calculate Percentages with/out a Calculator ○ Calculate simple interest. ○ Use multipliers to increase/decrease by a percentage. ○ Solve problems involving reverse percentages.		
Y9 Core Exam				

Summer 1	Unit 15: Sequences	• Types of Sequences ○ Recognise and continue linear, quadratic and geometric sequences. • Linear Sequences ○ Generate sequences from the nth term rule of a linear. ○ Find the nth term rule of a linear sequence. ○ Find the nth term rule from a diagram.	Units 1-24 assessed in the Summer Term Assessment.
	Unit 16: Probability	• Combined Events ○ Calculate the probability of combined events using systematic listing, sample space diagrams, frequency trees and two-way tables. ○ Calculating expected outcomes for a combined event. • Relative Frequency ○ Conduct an experiment to find the relative frequency of an event. ○ Compare the relative frequency and theoretical probability of an event. • Venn Diagrams and Set Notation ○ Understand and use set notation to describe the universal set and subsets. ○ Understand and use set notation for the union, intersection and complement. ○ Calculate probabilities from a venn diagram using set notation.	Content from Y7 & Y8 can also be assessed.
	Unit 17: Transformations	• Transformations on a Co-ordinate Grid ○ Reflect, rotate, translate and enlarge shapes on a co-ordinate grid. ○ Describe single transformations in detail. ○ Draw a shape after a combined transformation then describe it as a single transformation.	
	Unit 18: Equations & Graphs	• Simultaneous Equations ○ Plot graphs to solve linear simultaneous equations graphically. ○ Solve simultaneous equations with positive terms algebraically by finding the difference between the equations.	

	Summer 2	Unit 19: Statistics	• Averages and Range ○ Compare data sets by calculating the averages and range from a list, frequency table and grouped frequency table. • Data Collection and Presentation ○ Draw and interpret pie charts for any frequency. ○ Interpret relationships in scatter diagrams by drawing lines of best fit and use them to make predictions. ○ Comment on issues with extrapolation in scatter diagrams. ○ Complete a grouped frequency table from a histogram with equal class widths.	
		Unit 20: Area & Volume	• Surface Area & Volume ○ Find the surface area of composite solids made of prisms. ○ Calculate the volume of composite solids made of prisms, including cylinders.	
		Unit 21: Trigonometry	• Trigonometric Ratios ○ Discover the trigonometric ratios: SOH CAH TOA ○ Use the trigonometry ratios to calculate a missing side and angle	
	Summer Term Assessment			