



Curriculum Map

Subject: Maths

Year Group: 9F

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Content	Unit 1: Number.	Unit 2: Algebra.	Unit 3: Graphs, tables and charts.	Unit 4: Fractions and percentages. Unit 5: Equations, inequalities and sequences.	Unit 6: Angle.	Unit 7: Averages and range. Unit 8: Rectangles, parallelograms and triangles.
Skills	Students will... Unit 1: Use order of operations. Use inverse operations. Round to significant figures and estimate. Find HCF and LCM. Calculate with powers (indices). Use zero, negative and fractional indices. Use prime factors to find HCF and LCM.	Students will... Unit 2: Use algebraic notations. Write and simplifying expressions. Substitute numbers into expressions. Recognise the difference between Formulae and expressions. Expand brackets. Factorise expressions. Use expressions and formulae.	Students will... Unit 3: Read data from frequency tables. Design and use Two-way tables, Representing data in bar charts Interpret charts, line graphs and histograms. Construct and interpret stem and leaf diagrams, Draw and interpret pie charts, Plot and interpret scatter graphs, Draw and use line of best fit to predict values.	Students will... Unit 4: Work with fractions. Add and subtract fractions. Multiplying and divide fractions. Convert between Fractions, decimals and percentages. Find a percentage of quantities. Calculate percentage increases and decreases. Unit 5: Solve simple linear equations. Solve two-step equations. Solve equations with brackets. Solve simple inequalities. Solve two-sided inequalities.	Students will... Unit 6: Identify congruent shapes. Find angles in parallel lines. Solve angles problems in triangles. Calculate the exterior and interior angles of regular polygons. Explain why some polygons tessellate and others don't.	Students will... Unit 7: Find the mode, median, mean and range. Recognise different types of average. Find an estimate of the mean. Understand the need for sampling. Unit 8: Calculate the perimeter and area of rectangles, parallelograms and triangles. Calculate the perimeter and area trapezia. Convert between area measures. Calculate the perimeter and

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				Use formulae. Generate sequences. Find the nth term of a sequence.		area of compound shapes. Calculate the surface area of prisms. Calculate the volume of prisms, Solve problems involving volume and surface area.
Key questions	FOUNDATION ACTIVELEARN BOOK UNIT 1 PRACTICE TEST PAGE 30	FOUNDATION ACTIVELEARN BOOK UNIT 2 PRACTICE TEST PAGE 56	FOUNDATION ACTIVELEARN BOOK UNIT 3 PRACTICE TEST PAGE 88	FOUNDATION ACTIVELEARN BOOK UNIT 4 PRACTICE TEST PAGE 119 UNIT 5 PRACTICE TEST PAGE 147	FOUNDATION ACTIVELEARN BOOK UNIT 6 PRACTICE TEST PAGE 179	FOUNDATION ACTIVELEARN BOOK UNIT 7 PRACTICE TEST PAGE 206 UNIT 8 PRACTICE TEST PAGE 240
Assessment	Unit 1 Assessment	Unit 2 Assessment	Unit 3 Assessment	Unit 4 & 5 Assessment	Unit 6 Assessment	Unit 7 & 8 Assessment
Literacy/ Numeracy/ SMSC/ Character	Understanding and interpreting worded questions. Resilience, practicing diligence and organisation with good presentation.	Understanding and interpreting worded questions. Resilience, practicing diligence and organisation with good presentation.	Understanding and interpreting worded questions. Appreciating how data is used to deliver information and how it can be transformed to represent information in different ways	Understanding and interpreting worded questions. Recipes, sharing and best values for money. Seeing how Fractions, decimals and Percentages are used in data, in the new and sales.	Understanding and interpreting worded questions. Using correct phrases and terminology to explain reasons for answers Using equipment correctly	Understanding and interpreting worded questions. Identity and recognising the significance of area, perimeter and volume as it applies to real life.

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
				Recognising patterns Resilience and practicing diligence and organisation with good presentation.		



Curriculum Map

Subject: Maths

Year Group: 9H

	Autumn 1 Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Content	Unit 1: Number.	Unit 2: Algebra.	Unit 3: Interpreting and representing data. Unit 4: Fractions, Percentages and Proportion.	Unit 5: Angles and trigonometry.	Unit 6: Graphs.	Unit 7: Area and volume. Unit 8: Transformations and constructions.
Skills	Students will... Unit 1: Number Work out the total number of ways of performing a series tasks. Estimate an answer. Find the HCF and LCM. Use powers and roots in calculation. Use zero, negative and fractional indices. Calculate with numbers in standard form. Simplify and rationalise surds.	Students will... Unit 2: Use the rules of indices to simplify algebraic expression. Expand and factorise expressions. Solve equations involving brackets and fractions. Substitute numbers into formulae. Rearrange formulae. Find the nth term of a linear sequences, Solve problems using non-linear sequences, Expand the product of two brackets.	Students will... Unit 3: Construct and use back-to-back stem and leaf diagrams. Construct and use frequency polygons and pie charts. Plot and interpret scatter graphs. Use a line of best fit to predict values. Find averages and range from grouped data. Recognise misleading graphs. Unit 4: Add, subtract, multiply and divide fractions.	Students will... Unit 5: Derive and use the sum of angle in a triangle and quadrilateral. Solve problems using interior and exterior angles of polygons. Solve problems using Pythagoras' theorem.	Students will... Unit 6: Find gradient and y-intercept of a linear equation. Find the equation of a line. Find the gradient through two points. Draw and interpret real-life graphs. Find the equation of parallel and perpendicular lines. Draw and interpret quadratic graphs. Draw the graphs of cubic and reciprocal functions. Draw the graph of a circle.	Students will... Unit 7: Find the perimeter and area of compound shapes. Convert between metric units area. Calculate upper and lower bound of measurements. Calculate surface area and volume of prisms. Calculate the area and perimeter of sectors. Calculate the volume and surface area of cylinders and spheres. Calculate the volume and

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		Factorise quadratics of the form $x^2 + bx + c$.	Solve problems involving ratios. Solve problems involving ratio and proportion, Solve real-life problems involving percentages, Calculate using fractions, decimals and percentages.			surface area of pyramids and cones. Unit 8: Draw plans and elevations of 3D solids, Carry out and describe reflection and rotation Carry out and describe enlargement and translation Carry out and describe a combination of transformations Solve problems involving bearings and scale drawings, Construct a triangle using a ruler and compasses. Construct perpendicular and angle bisectors. Use loci to solve problems.

	Autumn 1 Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Key questions	HIGHER ACTIVELEARN BOOK UNIT 1 PRACTICE TEST PAGE 28	HIGHER ACTIVELEARN BOOK UNIT 2 PRACTICE TEST PAGE 59	HIGHER ACTIVELEARN BOOK UNIT 3 PRACTICE TEST PAGE 94 UNIT 4 PRACTICE TEST PAGE 119	HIGHER ACTIVELEARN BOOK UNIT 5 PRACTICE TEST PAGE 157	HIGHER ACTIVELEARN BOOK UNIT 6 PRACTICE TEST PAGE 200	HIGHER ACTIVELEARN BOOK UNIT 7 PRACTICE TEST PAGE 237 ACTIVELEARN BOOK UNIT 8 PRACTICE TEST PAGE 277
Assessment	Unit 1 Assessment	Unit 2 Assessment	Unit 3 & 4 Assessment	Unit 5 Assessment	Unit 6 Assessment	Unit 7 & 8 Assessment
Literacy/ Numeracy/ SMSC/ Character	Understanding and interpreting worded questions. Resilience, practicing diligence and organisation with good presentation.	Understanding and interpreting worded questions. Resilience, practicing diligence and organisation with good presentation.	Understanding and interpreting worded questions. Appreciating how data is used to deliver information and how it can be transformed to represent information in different ways Recipes, sharing and best values for money. Seeing how Fractions, decimals and Percentages are used in data, in the new and sales.	Understanding and interpreting worded questions. Recognising Trigonometric ratios and its application to real life. Building on their resilience, tolerance, initiative and confidence	Understanding and Interpreting worded questions Honing skills in plotting graphs of functions. Resilience and patience	Understanding and Interpreting worded questions Recognising and appreciating its practical application in real life Viewing objects and things in different positions and perspectives. Using equipment correctly Resilience, practicing diligence and paying attention to details