Curriculum Map

Subject: Mathematics **Year Group: 7L**

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Content	**Unit 1: Number skills.** **Unit 2: Analysing and displaying data.**	**Unit 3: Expressions, functions and formulae.** **Unit 4: Decimals, Measures, Perimeter & Area.**	**Unit 5: Fractions.** **Unit 6: Probability.**	**Unit 7: Ratio and proportion.** **Unit 8: Lines and angles.**	**Unit 9: Sequences and graphs.**	**Unit 10: Transformations**
Skills	Students will… **Unit 1:** Use order of operations. Add and subtract whole numbers. Multiplication and divide whole number. Solve problems involving time and money. Order, add, subtract, multiply and divide negative numbers Find factors, multiples and primes Identify HCF and LCM Recognise and use square and triangle numbers. **Unit 2:** Fid the mode, median and range. Display data. Interpret charts for grouped data.	Students will… **Unit 3:** Find outputs and describe simple functions. Simplify expressions by collecting like terms. Write expressions. Substitute into formulae. Write formulae. **Unit 4:** Round decimals and estimate answers. Convert units of length, mass and capacity. Read scales, read and plot coordinates. Multiply decimals mentally.	Students will… **Unit 5:** Compare fractions. Simplify fractions. Work with fractions. Find equivalence of fractions and decimals. Understand percentages. Find percentages of amounts. **Unit 6:** Use the language of probability. Calculate probability. More probability calculations. Estimate probability based on experiment. Apply probability for experimental.	Students will… **Unit 7:** Use direct proportion in simple context. Write ratios. Use ratios to divide quantities. Use ratios and measures. Use fractions to describe and compare fractions. Use percentages to describe proportions. **Unit 8:** Describe and label lines, angles and triangles Estimate, measure and draw angles Draw triangles accurately	Students will… **Unit 9:** Recognise, describe and continue sequences Find and describe pattern and rules in sequences Generate and plot Coordinates. Describe and extending special sequences Draw straight-line graphs Describe Position-to-term rules Find the nth term of sequences.	Students will… **Unit 10:** Identify congruent shapes. Use the language of enlargements. Recognise line and rotational symmetry in 2D shapes. Describe and carry out reflection. Describe and carry out rotation. Translate 2D shapes and combined transformations.

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
	Calculate averages and compare data. Use and draw line graphs and more bar charts. Use spreadsheets.	Work with decimals. Solve problems with perimeter. Solve problems with area. Use metric and imperia units.		Calculate angles on a straight line and around a point Calculate angles in a triangle and quadrilaterals		
Key questions	Active learn book: KS3 Maths Progress – Theta 1 Unit 1 Practice Test Page 27 Unit 2 Practice Test Page 57	Active learn book: KS3 Maths Progress – Theta 1 Unit 3 Practice Test Page 85 Unit 4 Practice Test Page 115	Active learn book: KS3 Maths Progress – Theta 1 Unit 5 Practice Test Page 141 Unit 6 Practice Test Page 165	Active learn book: KS3 Maths Progress – Theta 1 Unit 7 Practice Test Page 191 Unit 8 Practice Test Page 219	Active learn book: KS3 Maths Progress – Theta 1 Unit 9 Practice Test Page 245	Active learn book: KS3 Maths Progress – Theta 1 Unit 10 Practice Test Page 273
Assessment	Unit 1 & 2 Assessment	Unit 3 & 4 Assessment	Unit 5 & 6 Assessment	Unit 7 & 8 Assessment	Unit 9 Assessment	Unit 10 Assessment
Literacy/ Numeracy/ SMSC/ Character	Understanding and interpreting worded questions Creating and interpreting own data studies e.g. surveys and charts. Team work and collaboration Using equipment correctly	Understanding and interpreting worded questions Understanding place values and its applications to real life. Resilience, practicing diligence and paying attention to details	Understanding and interpreting worded questions Comparing fractions to find best deals in sales. Using correct language to explain chances	Understanding and interpreting worded questions Recipes, sharing and best values for money. Using correct phrases and terminology to explain reasons for answers Using equipment correctly	Understanding and interpreting worded questions Noticing patterns for sequences. Honing skills in plotting graphs of functions. Resilience and patience	Understanding and interpreting worded questions Viewing objects and things in different positions and perspectives Resilience, practicing diligence and paying attention to details

Subject: Mathematics **Year Group: 7H**

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Content	**Unit 1: Number skills.** **Unit 2: Analysing and displaying data.**	**Unit 3: Equations, functions and formulae.** **Unit 4: Fractions**	**Unit 5: Angles and shapes.** **Unit 6: Decimals.**	**Unit 7: Equations.**	**Unit 8: Multiplicative reasoning.**	**Unit 9: Perimeter, area and volume.** **Unit 10: Sequences and graphs:**
Skills	Students will… **Unit 1:** Add and subtract decimals. Multiply and divide decimals. Find factors, primes and multiples. Using negative numbers, Squares and square roots. Calculate using powers and roots. **Unit 2:** Collect data. Complete Two-way tables and bar charts. Find averages and range, Record grouped data. Draw and interpret Pie charts, Scatter graphs and correlation	Students will… **Unit 3:** Simplify algebraic expressions, Write algebraic expressions. Use and write formulae. Expand and factorise expressions. **Unit 4:** Work with fractions. Add and subtract fractions. Work with equivalent fractions, decimals and percentages. Multiply and divide fractions. Work with mixed numbers.	Students will… **Unit 5:** Find angles in parallel lines**,** triangles, quadrilaterals and other polygons. **Unit 6:** Order decimals, Round decimals, Add, subtract, multiply and divide decimals. Convert between fractions, decimals and percentages. Solve with percentages.	Students will… **Unit 7:** Solve one-step equations. Solve two-step equations. Solve more complex equations. Use Trial and improvement to find solutions	Students will… **Unit 8:** Convert between metric and imperial units. Use metric units. Write ratios. Share quantities into given ratios. Develop proportional reasoning. Use the unitary method,	Students will… **Unit 9:** Calculate the area and perimeter of triangles, parallelograms and trapezia. Calculate the area of compound shapes. Identify the nets and know the properties of 3D solids. Surface area. Calculate the volume of cubes and cuboids. Convert between metric measures of area and volume. **Unit 10:**

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
						Workout the terms of arithmetic sequences. Find the nth term. Generate sequences. Recognise pattern in sequences. Read and plot coordinates. Workout the mid-point of line segments.
Key questions	Active learn book: KS3 Maths Progress - Delta 1 Unit 1 Practice Test Page 27 Unit 2 Practice Test Page 54	Active learn book: KS3 Maths Progress - Delta 1 Unit 3 Practice Test Page 79 Unit 4 Practice Test Page 105	Active learn book: KS3 Maths Progress - Delta 1 Unit 5 Practice Test Page 129 Unit 6 Practice Test Page 157	Active learn book: KS3 Maths Progress - Delta 1 Unit 7 Practice Test Page 179	Active learn book: KS3 Maths Progress - Delta 1 Unit 8 Practice Test Page 205	Active learn book: KS3 Maths Progress - Delta 2 Unit 9 Practice Test Page 233 Unit 10 Practice Test Page 259
Assessment	Unit 1 & 2 Assessment	Unit 3 & 4 Assessment	Unit 5 & 6 Assessment	Unit 7 Assessment	Unit 8 Assessment	Unit 9 & 10 Assessment
Literacy/ Numeracy/ SMSC/ Character	Understanding and interpreting worded questions Creating and interpreting own data studies e.g. surveys and charts. Team work and collaboration Using equipment correctly	Understanding and interpreting worded questions Comparing fractions to find best deals in sales. Resilience, practicing diligence and paying attention to details	Understanding and interpreting worded questions Understanding place values and its applications to real life. Using correct phrases and terminology to explain reasons for answers	Understanding and interpreting worded questions Resilience, practicing diligence and organisation with good presentation.	Understanding and interpreting worded questions Recipes, sharing and best values for money.	Understanding and interpreting worded questions Noticing patterns for sequences. Honing skills in plotting graphs of functions. Resilience and patience

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
			Using equipment correctly.			