Curriculum Map

Subject: Maths

Year Group: 8L

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Content	Unit 1: Number Properties & Calculation. Unit 2: Shapes and Measures in 3D.	Unit 3: Statistics. Unit 4: Expressions & Equations.	Unit 5: Decimal Calculations Unit 6: Angles.	Unit 7: Number Properties. Unit 8: Sequences.	Unit 9: Fractions & Percentages:	Unit 10: Probability
Skills	Students will… Unit 1: Add and subtract with large numbers, negative numbers. Write g ratios. Use rations to solve problems. Unit 2: Draw 3D solids, nets of 3D solids. Calculate surface area and volume. Work with measures.	Students will… Unit 3: Complete data collection sheet. Interpreting bar charts. Drawing bar charts, pie charts. Unit 4: Write and simple expressions, functions, solving equations, using brackets	Students will… Unit 5: Add and subtracting decimals. Multiplying decimals. Ordering and rounding decimals. Solve problems with decimals. Unit 6 Measuring and drawing angles. Calculate angles using vertical opposite angles and angles in triangles. Draw triangles accurately. Design nets.	Students will… Unit 7: Recognise and use squares, cubes and roots. Calculate with brackets and indices, LCM and HCF, prime factor decomposition. Unit 8: Generate sequences. Extending sequences. Find position-to-position rules. Finding the nth term.	Students will… Unit 9: Compare fractions. Find fractions of amounts. Add and subtracting fractions. Calculating percentages. Calculate percentages and proportions.	Students will… Unit 10: Use the language of probability. List outcomes. Calculate probability, Estimate probability based on experiment. Comparing probabilities.

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Key questions	Active learn book: KS3 Maths Progress - Pi 2 Unit 1 Practice Test Page 25 Unit 2 Practice Test Page 49	Active learn book: KS3 Maths Progress – Pi 2 Unit 3 Practice Test Page 73 Unit 4 Practice Test Page 95	Active learn book: KS3 Maths Progress – Pi 2 Unit 5 Practice Test Page 117 Unit 6 Practice Test Page 141	Active learn book: KS3 Maths Progress – Pi 2 Unit 7 Practice Test Page 163 Unit 8 Practice Test Page 185	Active learn book: KS3 Maths Progress – Pi 2 Unit 9 Practice Test Page 211	Active learn book: KS3 Maths Progress – Pi 2 Unit 10 Practice Test Page 239
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.\n\nRecipes, sharing and best values for money.\n\nUnderstanding nets and how they play a role in packaging and construction.	Understanding and interpreting worded questions.\n\nCreating and interpreting own data studies e.g. surveys and charts.\n\nResilience, practicing diligence and organisation with good presentation.\n\nTeam work and collaboration	Understanding and interpreting worded questions.\n\nUnderstanding place values and its applications to real life.\n\nUsing correct phrases and terminology to explain reasons for answers\n\nUsing equipment correctly\n\nResilience and practicing diligence and paying attention to details	Understanding and interpreting worded questions\n\nNoticing patterns for sequences.	Understanding and interpreting worded questions\n\nComparing fractions percentages to find best deals in sales.\n\nSeeing how Fractions and Percentages are used in data and in the news\n\nResilience and paying attention to details	Understanding and interpreting worded questions\n\nUsing correct language to explain chances

Curriculum Map

Subject: Maths   **Year Group: 8H**

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
Content	**Unit 1: Factors and powers.** **Unit 2: Expressions and Algebra**.	**Unit 3: 2D shapes and 3D solids.** **Unit 10: Graphs**	**Unit 5: Transformations:** **Unit 6: Fractions, decimals and percentages.**	**Unit 7: Constructions and loci.** **Unit 8: Probability.**	**Unit 9: Scale drawings and measures.**	**Unit 4: Real Graphs**
Skills	Students will… **Unit 1:** Write Prime factor decomposition. Use prime factors to find HCF and LCM. Use the laws of indices. Use powers of 10. Estimate answers. **Unit 2:** Simplify expressions. Expand and factorise expressions Substituting into expression Form and Solve Equations.	Students will… **Unit 3: 2D shapes and 3D solids:** Use plans and elevations. Calculate surface area of prisms. Calculate volume of prisms. Calculate Circumference and area of a circle. Calculate the volume and surface area of cylinders. Use Pythagoras' theorem in right-angled triangles. **Unit 10: Graphs** Plot linear graphs Find gradient and intercept. Find equation of a straight line.	Students will… **Unit 5:** Describe and carry and out reflection and translation, Describe and carry and out rotation, Describe and carry and out enlargement, More enlargement, Use a combination of transformations, Find perimeter and volume after enlargement. **Unit 6:** Recognise recurring decimals. Change fractions to recurring decimals.	Students will… **Unit 7:** Make accurate drawings of triangles using a protractor. Constructing shapes using compasses and ruler Construct perpendicular bisectors. Bisect angles. Use loci to solve problems. **Unit 8:** Compare probabilities. Find probabilities of mutually exclusive events. Estimate probability. Estimate probability based on experiment.	Students will… **Unit 9:** Use maps and scales Measure and use bearings Draw diagrams to scales Identify congruent and similar shapes Solve geometric problems	Students will… **Unit 4: Graphs** Plot linear graphs. Find the gradient. Interpret graphs. Understand misleading graphs.

	Autumn 1/Autumn 2	Autumn 2	Autumn 2/Spring 1	Spring 2	Summer 1	Summer 2
		Identify parallel and perpendicular lines. Find the inverse of a linear function. Plot and use non-linear graphs.	Use percentages. Calculate percentage change. Calculate the effect of repeated percentage change.	Draw sample space diagrams. Use tree diagrams to find.		
Key questions	Active learn book: KS3 Maths Progress - Delta 2 Unit 1 Practice Test Page 21 Unit 2 Practice Test Page 43	Active learn book: KS3 Maths Progress -Delta 2 Unit 3 Practice Test Page 73 Unit 10 Practice Test Page 250	Active learn book: KS3 Maths Progress -Delta 2 Unit 5 Practice Test Page 127 Unit 6 Practice Test Page 147	Active learn book: KS3 Maths Progress - Delta 2 Unit 7 Practice Test Page 171 Unit 8 Practice Test Page 199	Active learn book: KS3 Maths Progress - Delta 2 Unit 9 Practice Test Page 223	Active learn book: KS3 Maths Progress - Delta 2 Unit 4 Practice Test Page 99
Assessment	Unit 1 & 2 Assessment	Unit 3 & 10 Assessment	Unit 5 & 6 Assessment	Unit 7 & 8 Assessment	Unit 9 Assessment	Unit 4 Assessment
Literacy/ Numeracy/ SMSC/ Character	Understanding and interpreting worded questions. Resilience and practicing diligence and organisation with good presentation.	Understanding and interpreting worded questions. Understanding nets and how they play a role in packaging and construction. Honing skills in plotting graphs of functions. Resilience and patience	Understanding and interpreting worded questions. Viewing objects and things in different positions and perspectives Understanding place values and its applications to real life. Seeing how Fractions, decimals and Percentages are used in data, in the new and sales.	Understanding and interpreting worded questions Using equipment correctly Using correct language to explain chances Resilience and paying attention to details. Practicing careful presentation	Understanding and interpreting worded questions Using equipment correctly Practicing careful presentation	Understanding and interpreting worded questions. Conversion to imperial units Conversion of currency.