Vision / Rationale for curriculum / what you want for your pupils.

Year 7

We go over what we need them to know, cover little topics to ensure the fundamentals are there for them to progress. Ensure no misconceptions and that they have a true understanding. Extend when possible to show the pupils an insight into topics such as standard form, trigonometry, angles in polygons, compound interest.

Year 8

Build on skills they have learnt for example they will have seen pi in year 7 so in year 8 they build on this skill to then find the area and circumference of circles confidently

Year 9

Focus in on higher and foundation
Foundation pupils get to revisit and fill in any gaps they may have from years 7 and 8 and learn to apply to GCSE questions
Higher pupils extend their knowledge with opportunities to access grade 9 style questions in separate topics.

Pupils need to feel confident to succeed, Prior Knowledge is often revisited and added on each year they are here.
It is important that the pupils feel engaged in their work, hence while we revisit topics rather than teach everything all at once in one particular area.

	1st Half-term	2nd Half-term	3rd Half-term	4th Half-term	5th Half-term	6th Half-term
Year 7	Place Value Rounding/Estimation Calculations (numbers) Basic Algebraic Notation Special Numbers Perimeter and area of rectangles/triangles	Collecting, displaying and interpreting data Ratio and proportion Negative Numbers	Algebra-substitution, simplifying and solving Arithmetic with fractions	Sequences Averages Percentages FDP conversions Probability	Properties of shapes Volume and Surface Area Angles Plotting coordinates Pythagoras/trigonometry (higher only)	Transformations Circles Constructions Time and time tables
Year 8	Rounding/estimation Decimals Calculations and BIDMAS Factors, multiples and primes Surds (higher) Area Surface Area Volume	Algebraic Manipulation Solving equations Angles (polygons) Construct triangles Transformations	Fractions and Percentages	Probability Set notation and tree diagrams	Collection, displaying and interpreting data Averages Ratio and proportion	Sequences Graphs of functions
Year 9 **Higher (in bold)**	Calculations Decimals Factors, multiples and primes Special numbers **Standard Form** **Surds** Algebraic manipulation Rearrange Formula **Solve equations** **Sequences**	Represent/interpret data Fractions FDP Percentages **Ratio**	Solving Equations and inequalities Sequences	Angles- polygons **Pythagoras and trigonometry**	Averages **Graphs- algebraic, real life, rates of change**	Area and Volume **Cylinders** **Constructions and Loci** **Bearings and Maps**