YEAR 8 MATHEMATICS CURRICULUM MAP 2022-2023								
AUTUMN TERM		SPRING TERM		SUMMER TERM				
TERM 1	TERM 2	TERM 1	TERM 2	TERM 1	TERM 2			
INTRODUCTION LESSONS	ALGEBRAIC EQUATIONS &	ANGLES & GEOMETRICAL	STRAIGHT LINE GRAPHS	NUMERACY 4	NUMERACY 5			
Calculator skills	FORMULA	REASONING	 Function machines 	 Factors and multiples 	Two way tables			
PERIMETER, AREA, VOLUME Find area and perimeter for triangles, squares and composite shapes Find missing sides Pythagoras FRACTIONS, DECIMALS, PERCENTAGES Recognise fractions and equivalent fractions Convert between mixed and improper fraction decimal and percentage 4 operations with fractions Interest NUMERACY 1 Estimates Rounding and operations with negatives	Simplify expressions Expand and factorise brackets Solve linear equations Substitution Use inequalities Solve inequalities Solve inequalities Multiplication and division Powers of ten and place value Manipulate decimals PROBABILITY Use correct vocabulary Place events on probability scale Find experimental probability and estimates Sample space diagrams Bias and relative	Estimate sizes of angles Use angle facts Use angle sums for polygons Bearings NUMERACY 3 Factors multiples and types of numbers Add and subtract fractions Index laws Prime factor decomposition BIDMAS DATA HANDLING SKILLS 1&2 Averages, mean, median, mode, range Averages from tables Grouped data Pie charts Bar charts Frequency polygons,	 Find gradient and intercepts Identify parallel lines Midpoints Real life graphs Implicit and explicit linear functions [SET 4] Unit on time and timetables Convert between 12 and 24 hr clocks Use timetables to plan journeys RATIO & PROPORTION Understand ratio notation Simplify ratio Convert between units Understand scale factors and map/ model scales Understand proportion direct and inverse 	 Prime numbers Metric units Convert between units Rounding Upper and lower bounds TRANSFORMATIONS Lines of symmetry Reflection, rotation, translation, enlargement Vectors Planes of symmetry 	Sequences recap Nth term Recurring decimals Prime factor decomposition NUMERACY 6 Estimate lengths and weights HCM LCF Two way tables problems Conversion graphs Compound measure PROBLEM SOLVING LESSONS Teachers have an opportunity to use problem solving tasks and lessons to allow the year 8s to engage in project work and problem solving lessons Resources recommended to be used Lower ability sets to go back over skills and topics			
Prime factors	frequency	scatter graphs and stem			from the year			
Index notationBounds		and leaf diagrams			Teachers given autonomy			
ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT	ASSESSMENT			
	Topic assessment 1 Perimeter area and volume Fraction decimal and percentage Numeracy 1	 Topic Assessment 2 Algebraic equations and formula Numeracy 2 Angles and geometrical reasoning 	Topic Assessment 3	End of year synoptic assessment Week 6 of term				

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