Term 1 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 NC Mathematics Programme of study	Pathway 2	Pathway 2	Pathway 2
	To understand the properties of numbers	To sequence numbers. To identify a quantity. To compare two numbers using the vocabulary most/fewest. To read numbers in numerals. To write numbers in numerals. To read numbers in words. To write numbers in words. to order numbers. to identify the values of each digit in a 3-digit number To round to the nearest 10 To identify number patterns – odd and even	Entry Level 3 Assessments- Papers 1-4
	To understand the four operations (+ - x ÷)	To add and subtract within 1000, including money. To add numbers within 20 to achieve a specific total. To identify missing numbers using the inverse operation. To select the correct operation from a worded problem. To use repeated addition as a form of multiplication. To recall multiplication facts to 10 x table. To multiply 2-digit numbers by a one-digit number.	

	To understand the concept of ratio	To divide a 2-digit number by a one-digit number. To identify half of a given shape or quantity. To identify a simple fraction of a quantity (numerators 1-4). To identify equivalent fractions To add and subtract fractions with the same denominator. To identify and continue number patterns. To identify a shaded proportion of a shape. To identify missing numbers within a simple simultaneous equation (+ -).	
	To understand the concept of money	To identify UK currency To understand the value of each denomination of coin/note. To combine the values of different coins to make/find a given amount of money. To convert between pounds and pence. To add, subtract and multiply amounts of money. To select the correct operation from a worded problem.	
	To understand how to use mathematical equipment	To accurately use a calculator in order to find the answer to a given mathematical problem.	

	Pathway 3	Pathway 3	Pathway 3

Term 2 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 NC Mathematics Programme of study	To understand the concept of time and passing of time	To read an analogue clock, including roman numerals. To accurately write time on an analogue clock. To sequence the days of the week/months of the year. To read 24-hour time in words To read 24-hour time in numerals To write 24hour time To read a digital clock To write time on a digital clock To understand the vocabulary before, after and tomorrow. To sequence events. To identify units of time and their related duration. To calculate a duration of time (+ -).	Entry Level 3 Assessments- Papers- 5-8

		To convert between hours and minutes. To interpret a calendar.	
	To understand the concept of measurement	To accurately use a ruler to measure length. To draw a line to a given measurement. To convert between units of measure. To compare measurements using the vocabulary half full, lightest/heaviest, tallest/shortest coldest/warmest. To select objects that would be most appropriate for a given measurement. To select the most appropriate measuring tool for a given scenario. To order measurements within the same unit of measure. To identify the appropriate unit of measure for a given object. To estimate the measurement of an object. To calculate the perimeter of a 2D shape. To understand negative numbers on a thermometer. To add and subtract units of measure.	
	To understand geometrical properties	To identify 2D shapes of differing size and orientation. To identify the different types of triangle. To identify 3D shapes of differing size and orientation. To compare the size of a selection of objects.	

		To compare the size of an angle in relation to a right angle. To identify pairs of parallel lines. To describe the position of objects using the vocabulary next to, below and between. To locate an object by following compass directions To accurately draw a 2D shapes using a ruler. To show movement of an object using fractions of a turn and clockwise/anti-clockwise. To identify properties of a 2D shape. To identify properties of a 3D shape. To identify symmetry within 2D shapes. To plot co-ordinates in the first quadrant. To identify a shape from its net.	
	To understand the construction and interpretation of statistical data	To interpret given data included within; tables, line graphs, tally charts Inc. frequency, pictograms. To solve problems based on the interpretation of data. To compare data using the vocabulary most/least. To accurately construct a bar chart, line graph, tally charts inc. frequency, pictogram from given data.	
	Pathway 2	Pathway 2	Pathway 2
	Pathway 3	Pathway 3	Pathway 3

Term 3 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 NC Mathematics Programme of study	To demonstrate a solid understanding of number	To divide a 2 and 3-digit whole numbers including remainders. To multiply 2-digit whole numbers by 1 and 2-digit whole numbers. To count numbers to 100. To read numbers to 100. To compare numbers to 100. To round numbers less than 1000 to the nearest 10 or 100. To read write and understand thirds, quarters, fifths and tenths To identify equivalents of thirds, quarters, fifths and tenths. To add and subtract 3-digit numbers. To recognise linear sequences of numbers to 100. To complete linear sequences of numbers to 100. To read decimals up to 2dp. To write decimals up to 2dp. To use decimals up to 2dp.	OCR Functional Skill Entry Level 3
	To understand the concept of money	To calculate with money using decimal notation. To express money using the correct monetary notation to 2dp.	
	To understand the concept of time in different formats	To measure and record time using am and pm. To read time from an analogue clock.	

		To read time from a digital clock in 24h format.	
	Pathway 2	Pathway 2	Pathway 2
	Pathway 3	Pathway 3	Pathway 3

Term 4 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 NC Mathematics Programme of study	To understand the construction and interpretation of statistical data To understand the concept of measurement To understand geometrical properties	To interpret given data shown in different formats. To accurately construct frequency tables. To compare measures of length and mass using different units of measure.	OCR Functional Skills Entry Level 3

		To sort 2D shapes using properties including lines of symmetry, length, angles. To sort 3D shapes using properties including lines of symmetry, length, angles. To understand the 8-point compass. To use positional vocabulary to describe position and direction. Exam to be taken at the end of term	
	Pathway 2	Pathway 2	Pathway 2
	Pathway 3	Pathway 3	Pathway 3

Term 5 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 NC Mathematics Programme of study	To understand the construction and	To design a table	**Pearson Functional Skills Level 1**

	interpretation of statistical data	To interpret information from their own table. To calculate the mean from a set of given data. To select an appropriate form of presenting data. To present data in a chart or graph of their own design.	
	To understand the four operations (+ - x ÷)	To add whole numbers in order to solve a problem. To multiply whole numbers whole numbers in order to solve a problem.	
	To understand the concept of time in different formats	To round time to the nearest ¼ of an hour	
	Pathway 2	Pathway 2	Pathway 2
	Pathway 3	Pathway 3	Pathway 3

Term 6 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 NC Mathematics Programme of study	To understand how to analyse discreet data. To understand the relationship between fractions, decimals and percentages To understand how construct a realistic budget	To interpret information from a table. To compare results from a table To present findings in an appropriate format of their choice. To convert between fractions and percentages To calculate fractions of an amount. To calculate discounts To check calculations using inverse operations. Add and subtract monetary values to 2dp. To estimate costings within a budget. To construct a savings plan using a calendar.	**Pearson Functional Skill Level 1**
	Pathway 2	Pathway 2	Pathway 2
	Pathway 3	Pathway 3	Pathway 3
