Term 1 Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 and KS4 NC Mathematics Programme of study			
	Pathway 2	Pathway 2	Pathway 2
	To understand percentage change in relation to money To understand the conversions between metric and imperial measurements To understand compound measures	To confidently calculate with money. To accurately use money notation to 2dp. To calculate compound interest using a specific formula. To calculate percentage increase and decrease in a variety of monetary contexts. To convert between units of length, mass and capacity in metric and imperial systems. To calculate using metric and imperial measurements to 3dp. To read conversion graphs To accurately use conversion factors.	

	To understand the perimeter and area of 2D and composite shapes To understand formulae to find volumes and surface areas of 3D shapes	To recall and calculate using speed/density formulae. To explain the conversion between of units of distance, time, mass, volume and money. To apply knowledge of direct and inverse proportion to set formulaic equations. To calculate the perimeter of simple and composite shapes. To calculate the area of simple and composite shapes. To explain the required formulae for perimeter and area. Calculate the volume of 3D shapes, using formulae provided. Calculate the surface area of 3D shapes, using formulae provided. To explain the required formulae for volume	
	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 and KS4 NC Mathematics Programme of study			
	Pathway 2	Pathway 2	Pathway 2
	To understand the construction of scale drawings and diagrams	To calculate actual dimensions from scale drawings. To create scale diagram given actual measurements.	
	Pathway 3	Pathway 3	Pathway 3

Term 3Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 and KS4 NC Mathematics Programme of study			
	Pathway 2	Pathway 2	Pathway 2
	To understand co-ordinates in the four quadrants To understand common 2D representation of 3D objects and their properties To understand how to calculate values of angles within 2/3-D shapes	To accurately identify co-ordinates. To accurately plot a set of points. To interpret front elevations and plans of 3D shapes. To interpret working nets of a cube, cuboid, cylinder, pyramid and prism. To draw elevations and plans of simple 3D shapes and identify lines of symmetry.	

	To understand how to calculate averages of discrete data	To calculate angles using knowledge of common shape characteristics (e.g. sim of internal angles, angles at a point, angles on a straight line and vertical opposite angles.) To analyse information presented in different ways using statistics. To calculate the median of a set of quantities To calculate the mode of a set of quantities. To estimate the mean of a grouped frequency distribution from discrete data.	
	Pathway 3	Pathway 3	Pathway 3

Term 3Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
KS3 and KS4 NC Mathematics Programme of study			
	Pathway 2	Pathway 2	Pathway 2
	To understand how to compare the average of two sets of data To understand how to present probability using different formats To understand how to calculate the probability of combined events To understand how to draw and interpret diagrams showing correlations	To use the mean, median, mode and range to compare two sets of data, including discrete grouped data. To understand probability on a scale from 0 (impossible) to 1 (certain) To express probability as a fraction, decimal or percentage equivalent. To construct diagrams and tables to present the probability of combined events.	

		To extract and interpret information from a scatter diagram. To accurately plot points on a scatter diagram. To draw a line of best fit on a scatter diagram. To describe the correlation of the data plotted on a scatter diagram. To construct a scatter diagram that includes accurate plotting, labels and selection of an appropriate scale. To represent discrete data on a scatter diagram. Revision in preparation for Functional Skills level 1&2 exams	
	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 and KS4 NC Mathematics Programme of study			
	Pathway 2	Pathway 2	Pathway 2
		Revision in preparation for Functional Skills level 1&2 exams. Sit Functional Skills level 1&2 exams. Revise and resit where necessary/appropriate.	
	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 and KS4 NC Mathematics Programme of study			
	Pathway 2	Pathway 2	Pathway 2
		Sit Functional Skills level 1&2 exams. Revise and resit where necessary/appropriate.	
	Pathway 3	Pathway 3	Pathway 3

Theme:	Core Knowledge	Key Outcomes	Key Assessment Pieces
Key Learning/Links to NC	Pathway 1	Pathway 1	Pathway 1
	Pathway 2	Pathway 2	Pathway 2
	Pathway 3	Pathway 3	Pathway 3