Levenshulme High School – Curriculum Map – Maths

		Ter	m 1	Term 2		Term 3	
	Topic Title	Statistics and	Volume and	Other graphs and			
	and NC link	Quadratics	Transformations	vectors			
Year 11	Pupils should	 Shape of a 	 Concept of 	The shape of a	Exam preparation	Exam preparation	Exam preparation
	know	quadratic	surface area	cubic function	and revision	and revision	and revision
		parabola	and volume	 Recognise and 			
		 Recognise and 	 Properties of 	identify linear,			
		find key points	3D shapes	quadratic, cubic			
		of quadratic	 Reasoning with 	and reciprocal			
		parabolas	volume and	functions			
		 Compare data 	surface area	Sketch the			
		sets using	• Volume is a unit	shape of a			
		averages/range	of space inside	function			
		• Understand	a shape	Match functions			
		sampling	• Features of 4	to graphs			
		• How to use	transformations	How to identify			
		scale	What	shapes from			
		factors/similarity	information is	nets			
		Key facts about	required to	Draw nets			
		bearings (3	describe	• Draw plans and			
		ruies)		elevations			
		•	How to identify	Vectors are			
			transformations	movement			
				• How to combine			
			How to compline transformations	vectors			
	Pupils should	 Coloulate key 		- Drow o oubio			
	he able to	 Calculate key points of a 	• Calculate the	Draw a cubic function			
	do	quadratic	cones soberes				
	00	Sketch/plot a	and cylinders				
		• Sketch/piot a		function			
		the equation	 Calculate surface areas of 				
		 Find and 	solids	movement			
		interpret mean	Recall and	using vectors			
		median mode	apply formulae	Add/subtract			
		and range	for cylinders	vectors			
			and spheres				

	 Find mean and median from grouped frequency table Interpret and draw scale diagrams Find missing sides in similar shapes Work with bearings 	 Calculate the volume of cylinders and spheres Solve problem solving questions with volume Perform 4 transformations Describe 4 transformations Do one transformation followed by another 	 Multiply vectors by a number Plan a path using vectors Draw nets Identify nets 		
Why are we	Simple averages	KS3 work on 2d	Graphs are		
now?	now extended to	area and volume is	using knowledge of		
How does it	include arouped	now applied to	powers tria		
build on prior	data and	surface area. This	indices.		
learning and	limitations.	is stretched to			
prepare for		include complex	Vector calculations		
knowledge		shapes. This is	are taught building		
and learning	Prior learning that	supported by strong	on number skills		
still to come?	pupils need to	algebra skills taught	and geometry skills		
	remember are:	in KS3.	like Pythagoras.		
	Roots/indices				
	Coordinates in	All four	At KS3 pupils have		
	4 quadrants	transformations	met nets and		
	Substitution into	have been taught at	elevations.		
	formula	KS3 and are now	Drian loorning that		
	Factorising &	combinea.	Prior learning that		
	solving	Prior learning that	remember are:		
	quadratic	nunils need to	 The shape of a 		
	equations	remember are:	linear and		
		Area formulae	guadratic graph		
		for rectangle.	1 3.00		
		trapezium,			

	•	Concept of		parallelogram.	•	How to plot a		
		'average'		circle and		linear and		
	•	Find midpoint of		triangle		quadratic graph		
	•	an interval	•	Circumference	•	The concept of		
		Basic ratio &		of a circle	-	a vector as a		
	•	proportion		formula		movement		
		Accurate	•	Nets of 3D		identifying x and		
	•	measurement	-	shanes		v axis		
		with ruler &	•	Volume of		How to plot		
		nrotractor	•	nrism	-	coordinates		
	•	Four points of	•	Substitution		How to multiply		
	•	compass		Linite of length	-	hy a scale		
	-	Angle feete	•	oring on length,		factor		
	•	Angle lacis,				How to find a		
		hotwoon		Naming basic	•	fraction of an		
		Detween parallal lines	•	Naming Dasic		amount		
	_			zu snapes		amount		
	•							
	•	Equation of						
		basic lines						
	٠	Symmetry						
	٠	Column vectors						
	٠	Angles and						
		direction						