	Topic List for the Yr 9 SKI Assessment June 2025	Sparx Code	R	Α	G
Straight line	To draw straight line graphs	M932			
graphs:	To find midpoints of lines	M622			
	Know and compare gradients and intercepts	M544			
	Find the equation of a line	M544			
	Write an equation in the form y=mx+c	M888			
	Explore perpendicular and parallel lines	U377, U898			
Forming and	Solve one and two step equations	M634, M647			
solving	Solve one and two step equations with brackets and inequalities	M902			
equations	Solve equations with unknowns on both sides	M554			
	Solve inequalities including with negative numbers	M118, M732			
	Substituting into formulae and equations	M417, M327			
	Rearrange formulae	M242			
	Rearrange complex formulae including brackets and squares	M983			
Into three	Know names of 2d and 3d shapes	M276, M767			
dimensions	To draw accurate nets of 3d shapes	M518			
	To draw plans and elevations	M229			
	To calculate area of triangles, rectangles, parallelograms	M390, M635			
	To calculate area of a trapezium and compound shapes	M996, M303			
	To find surface area of cubes and cuboids	M765, M722			
	To find surface area of triangular prisms and cylinders	M534, M963			
	To find volume of 3d shapes.	M722			
	To explore volume of cones, pyramids and spheres	U116, U484			
Rates	Solve speed, distance and time problems	M247, U151			
	Solve problems with density	U910			
	Solve rates of change problems, including using graphs	M478			
Ratio and	Solve problems with direct proportion	M472			
proportion	Solve problems with inverse proportion	M665			
	Solve ratio problems given whole or part	M525, M543			
	Solve best buy problems	M681			
	Solve problems with ratio and algebra	U676			
Number	To find HCF and LCM	M698, M365			
	To solve problems with decimals, and numbers in standard form	M719, M678			
	Convert between mixed numbers and improper fractions	M601			
	To add and subtract fractions including mixed numbers	M931			
	To multiply and divide fractions including mixed numbers	M197, M265			
	To understand and use surds	U338, U633			
Using	To use the equivalence of fractions, decimals and percentages	M264, M553			
percentages	To calculate percentage increase and decrease	M476			<u> </u>
	To express change as a percentage	M553	!		
	To solve reverse percentage problems	M528	!		
	To solve problems with repeated percentage change	0332			
	To calculate compound and simple interest	0332	<u> </u>		
	To solve problems with exchange rates	0610	<u> </u>		
A	To solve unit pricing problems and best buys	N1681			
Angles	To solve angle problems	M351, M679			
	To solve angle problems with parallel lines	M606	<u> </u>		
	To use and find the sum of angles in a polygon	N1653	<u> </u>		
Algobraia	To drow and interpret graduatic graphs	1000			<u> </u>
Algebraic	To draw and interpret quadratic graphs	0989	<u> </u>		
representations	I o draw and interpret reciprocal and cubic graphs	0593, 0980	<sup> </sup>		
Duthagaraa	To calculate missing cides in right angled triangles	U836			<u> </u>
Pythagoras	To use Duthegeres' Theorem on secretizate still	0385	+		
	To use Pythagoras Theorem on Coordinate grid	U385	$\vdash$		
Trigonomotry	To use Fyundgords Theorem III 5-0 Shapes		+		
ingonometry	To use the cosine, sine and tangent ratio to find missing sides	11545	$\vdash$		