

Year 10 Higher Scheme of Learning

	Week	Topic	Notes	Specification ref.	
Term 1	1	Revision, exam, review			
	2	Area and perimeter (1)	Formulae for 2D shapes, inc. compound shapes, arc length and sector area. Review terminology for parts of a circle	N8, N14, N15, A5, A21, R1, G9, G14, G16, G17, G18	
	3	Area and perimeter (2)	Formulae for 2D shapes, inc. compound shapes, arc length and sector area. Review terminology for parts of a circle	N8, N14, N15, A5, A21, R1, G9, G14, G16, G17, G19	
	4	3D shapes (1)	Volume and surface area of cone, pyramids, spheres, frustums and compound solids	N8, N14, N15, A5, A21, R1, G12, G13, G14, G16, G17, G18	
	5	3D shapes (2)	Volume and surface area of cone, pyramids, spheres, frustums and compound solids	N8, N14, N15, A5, A21, R1, G12, G13, G14, G16, G17, G19	
	6	Length, area and volume scale factors	Review converting between metric units first	R6, R12, G6, G19	
	7	Upper and lower bounds and recurring decimals to fractions	Review (year 9): recurring decimals to fractions. Bounds will be new	N15, N16, R1	
	8	Transformations	Inc. enlargements with negative scale factors	G7, G8, G24	
	HALF TERM				
	9	Constructions and loci		R2, R6, G2, G13, G15	
	10	Quadratic inequalities	Review sketching quadratic graphs first	N1, N8, A4, A5, A11, A18, A22	
	11	Surds	Review (year 9): inc. rationalising denominators	N3, N6, N7, N8, N14, A4, A5, A6	
	12	Revision, exam, review			
	13	Surds	Focus on problem solving questions with shapes	N3, N6, N7, N8, N14, A4, A5, A6	
	14	Differentiation (FURTHER MATHS)	Finding the first and second derivative	4.1, 4.2, 4.3	
15	Review/catch up time	Target Review			
Term 2	CHRISTMAS				
	16	Functions	Inc. composite and inverse functions	A4, A5, A6, A7, A18	
	17	Simultaneous equations	Review (year 9): recap linear and quadratic simultaneous equations	A19, A21	
	18	Linear graphs	Review (year 9): recap equations of parallel and perpendicular lines	N13, A8, A9, A10, A17	
	19	Graphical inequalities and Venn diagrams	Review (year 9): graphical inequalities. Set notation for Venn diagrams will be new	N1, A9, A22, P4, P6, P7, P8, P9	
	20	Tree diagrams	Extend to algebraic problems. Inc. starters on systematic counting strategies	N5, P2, P4, P5, P6, P7, P8, P9	
	21	Revision, exam, review			
	HALF TERM				
	22	Iterative methods	Rearranging, solving equations including cubics	A20, R16	
	23	Algebraic proof	evens, odds, squares, consecutive numbers, multiples and combinations of	A1, A4, A6	
	24	Histograms	Review (year 9)	G14, S1, S3, S4	
	25	Algebra review	Use SM's booklet that covers all algebra topics		
	26	Scientific formulae	SDT, DMV, PFA	N13, R1, R11	
27	Trigonometry	Review (year 9): sine & cosine rules (inc. bearings), area of triangles, exact values	A5, G20, G21, G22, G23		
28	Trigonometric graphs	Review (year 9): use graphs to solve trigonometric equations. Extend to quadratic equations	A8, A12, G20, G21		
Term 3	EASTER				
	29	Further trigonometry (FURTHER MATHS)	Use of trigonometric identities	6.6, 6.7, 6.8, 6.9, 6.10	
	30	Graph transformations	Review (year 9)	A8, A12, A13, G11, G24	
	31	Matrices (FURTHER MATHS)	Add/subtract/multiply matrices, identity matrix, matrix transformations	5.1, 5.2, 5.3, 5.4	
	32	Factor theorem (FURTHER MATHS)	Inc. sketching cubics		
	HALF TERM				
	33	Equations of circles	Inc. finding equations of tangents to circles	A8, A9, A10, A13, A16, G11	
	34	Vectors	Inc. ratio problems, proving vectors are parallel and proving points lie on a straight line	G24, G25	
	35	Revision, exam (all 3 papers), review			
	36	Revision, exam (all 3 papers), review			
	37	Revision, exam (all 3 papers), review			
38	Enrichment Week/Year 10 Work Experience				
39	Review	Target Review?			