

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 parallelograms, trapezia and circles, inc. compound shapes, arc length and	N8, N14, N15, A5, A21, R1, G9, G14, G16, G17, G18	
	3	Area and perimeter (2)	Formulae for 2D shapes inc parallelograms, trapezia and circles, inc. compound shapes, arc length and	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. Extend to backw	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. Extend to backw	N8, N14, N15, A5, A21, R1, G12, G13, G14, G16, G17, G19	
	6	Length, area and volume scale factors (1)	Review converting between metric units first	R6, R12, G6, G19	
	7	Length, area and volume scale factors (2)	Review converting between metric units first	R6, R12, G6, G20	
	8	Transformations	All types Inc. enlargements with negative scale factors	G7, G8, G24	
	HALF TERM				
	9	Constructions and loci	All constructions and loci problems	R2, R6, G2, G13, G15	
	10	Quadratic inequalities (1)	Review linear inequalities. Factorise and sketch quadratic graphs first then move to solving quadratic i	N1, N8, A4, A5, A11, A18, A22	
	11	Quadratic inequalities (2)	Review linear inequalities. Factorise and sketch quadratic graphs first then move to solving quadratic i	N1, N8, A4, A5, A11, A18, A23	
	12	Revision, exam, review			
	13	Upper and lower bounds and recurring decimals to fractions	Recurring decimals to fractions. Bounds may be new	N15, N16, R1	
	14	Surds (1)	Simplifying, adding, subtracting and multiplying inc double brackets. Extend to rationalising denomina	N3, N6, N7, N8, N14, A4, A5, A6	
15	Surds (2)	Simplifying, adding, subtracting and multiplying inc double brackets. Extend to rationalising denomina	N3, N6, N7, N8, N14, A4, A5, A7		
CHRISTMAS					
Term 2	16	Functions	Inc. composite and inverse functions	A4, A5, A6, A7, A18	
	17	Simultaneous equations (1)	recap linear simultaneous equations first with equations 3 and 4 and negatives then extend to quadrat	A19, A21	
	18	Simultaneous equations (2)	recap linear simultaneous equations first with equations 3 and 4 and negatives then extend to quadrat	A19, A22	
	19	Linear graphs	recap $y=mx+c$ extend to perpendicular lines and problem solving	N13, A8, A9, A10, A17	
	20	Graphical inequalities	Regions and inequalities	N1, A9, A22, P4, P6, P7, P8, P9	
	21	Revision, exam, review			
	HALF TERM				
	22	Venn Diagrams	Set theory notation and language - this will be new to all.	N1, A9, A22, P4, P6, P7, P8, P9	
	23	Tree diagrams	Extend to algebraic problems. Inc. starters on systematic counting strategies	N5, P2, P4, P5, P6, P7, P8, P9	
	24	Iterative methods	Roots of an equation, proving an iterative formula, finding estimates using the ANS button on calc.	A20, R16	
	25	Algebraic proof	Recap subtracting the product of 2 brackets. Ind odd and even proofs	A1, A4, A6	
	26	Histograms	Review (year 9) Inc backward problems, finding frequencies, given the histogram	G14, S1, S3, S4	
27	Algebra review	Use SM's booklet that covers all algebra topics			
28	Review/catch up time				
EASTER					
Term 3	29	Scientific formulae	SDT, DMV, PFA - inc the average speed of 2 journeys combined and density of 2 materials combined	N13, R1, R11	
	30	Trigonometry	Review sine & cosine rules (inc. bearings), area of triangles, exact values- won't have been covered	A5, G20, G21, G22, G23	
	31	Trigonometric graphs	Use graphs to solve trigonometric equations. Extend to quadratic trigonometric equations	A8, A12, G20, G21	
	32	Graph transformations	May not have been covered. Move graphs up, down, left and right. Extend to stretches.	A8, A12, A13, G11, G24	
	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				
	37				
	Enrichment Week/Year 10 Work Experience				
38					
39	Review	Target Review?			