

Vision summary/ Curriculum intent:										
Week	Unit	Year 9 - Higher	Assessment	Homework	Assessment Objectives/ skills	Unit	Year 10 - Higher	Assessment	Homework	Assessment objectives/ skills:
1	N2, N3, N14, N15	Basic number	Ongoing soft testing. PA, SA		Multiplying and dividing with decimals, rounding, estimation and BIDMAS		Revision, exam, review	Autumn Assessment 1	Weekly	
2	N6, N7	Indices			Inc. negative and fractional indices	N8, N14, N15, A5, A21, R1, G9, G14, G16, G17, G18	Area and Perimeter	Ongoing soft testing. PA, SA		Formulae for 2D shapes, inc. compound shapes, arc length and sector area. Review terminology for parts of a circle
3	N4	Prime factorisation, HCF and LCM			Product of prime factors. Use Venn diagrams to find HCF and LCM		Area and Perimeter			
4	N6, N7, N8	Surds			Inc. rationalising denominators	N8, N14, N15, A5, A21, R1, G12, G13, G14, G16, G17, G18	3D Shapes	Review Targets		Volume and surface area of cone, pyramids, spheres, frustums and compound solids
5	N6, N9	Standard form			Writing and calculating in standard form		3D Shapes			
6		Revision, Exam, Review	Autumn Assessment	Weekly		R6, R12, G6, G19	Length, area and volume scale factors	Ongoing soft testing. PA, SA		Review converting between metric units first
7	N3, A1, A2, A3, A4, A6, A7, A17	Solving linear equations	Ongoing soft testing. PA, SA		Inc. fractional equations where variable is in the denominator	N15, N16, R1	Upper and lower bounds and recurring decimals to fractions			Review (year 9): recurring decimals to fractions. Bounds will be new
October										
8	A1, A3, A4, A6	Expanding and factorising quadratics	Ongoing soft testing. PA, SA		Inc. difference of two squares	G7, G8, G24	Transformations	Ongoing soft testing. PA, SA		Inc. enlargements with negative scale factors
9	A1, A3, A4, A6	Algebraic fractions	Target Review		Simplifying, adding, subtracting, multiplying and dividing	R2, R6, G2, G13, G15	Constructions and loci			
10	N8, A4, A5, A11, A18	Solving quadratics	Ongoing soft testing. PA, SA		By factorising and using the formula. Create quadratic equations from word problems	N1, N8, A4, A5, A11, A18, A22	Quadratic inequalities			Review sketching quadratic graphs first
11	A19, A21	Simultaneous equations			Both linear and quadratic	N3, N6, N7, N8, N14, A4, A5, A6	Surds		Review (year 9): inc. rationalising denominators	
12	A1, A3, A4, A5, A6	Rearranging formulae			Inc. where the subject is in more than one term		Revision, exam, review	Autumn Assessment 2	Weekly	
13	A23, A24, A25	Sequences	Ongoing soft testing. PA, SA		Linear, quadratic, geometric and Fibonacci style sequences	N3, N6, N7, N8, N14, A4, A5, A6	Surds	Ongoing soft testing. PA, SA		Review (year 9): inc. rationalising denominators
14		Sequences				4.1, 4.2, 4.3	Differentiation (FURTHER MATHS)			Finding the first and second derivative
Christmas										
15		Algebra review	Ongoing soft testing. PA, SA		Use AQA topic worksheets		Review and catch-up	Review Targets		
16	G14, S2, S4	Averages and range			Inc. quartiles, averages from tables, stem and leaf diagrams, etc.	A4, A5, A6, A7, A18	Functions	Ongoing soft testing. PA, SA		Inc. composite and inverse functions
17	G14, S2, S3, S4, S5, S6	Pie charts, scatter graphs, cumulative frequency			Inc. comparing data sets. One lesson on capture-recapture method of sampling	A19, A21	Simultaneous equations			Review (year 9): recap linear and quadratic simultaneous equations
18	G14, S1, S3, S4	Histograms			Drawing, interpreting, find mean and median	N13, A8, A9, A10, A17	Linear graphs			Review (year 9): recap equations of parallel and perpendicular lines
19	N1, N10, N12, R3, R9	Fractions and percentages			Converting between FDP, recurring decimals to fractions, simple and compound interest	N1, A9, A22, P4, P6, P7, P8, P9	Graphical inequalities and Venn diagrams		Review (year 9): graphical inequalities. Set notation for Venn diagrams will be new	
20		Revision, Exam, Review	Spring Assessment	Weekly		N5, P2, P4, P5, P6, P7, P8, P9	Tree diagrams		Extend to algebraic problems. Inc. starters on systematic counting strategies	
February										
21	R9	Fractions and percentages	Ongoing soft testing. PA, SA		Reverse percentages and percentage change		Revision, exam, review	Spring Assessment	Weekly	
22	R4, R5, R6, R7, R8	Ratio and proportion			Challenging problems on nrch	A20, R16	Iterative methods	Ongoing soft testing. PA, SA		
23	A7, R7, R10, R13, R14	Direct and inverse proportion	Target Review		Inc. squares, cubes, roots, etc.	A1, A4, A6	Algebraic proof			
24	N15, A5, G1, G3, G4, G6	Angles	Ongoing soft testing. PA, SA		Recap parallel lines and interior/exterior angles. Focus on problems involving algebra	G14, S1, S3, S4	Histograms	Review Targets		Review (year 9)
25	G9, G10	Circle theorems			Cover all theorems and look at proofs		Algebra review	Ongoing soft testing. PA, SA		Use SM's booklet that covers all algebra topics
26		Circle theorems				N13, R1, R11	Scientific formulae			SDT, DMV, PFA
Easter										

27	N8, N15, A4, A5, G6, G11, G20	Pythagoras and SOHCAHTOA	Ongoing soft testing. PA, SA		Inc. Pythagoras and trigonometry in 3D	A5, G20, G21, G22, G23	Trigonometry	Ongoing soft testing. PA, SA		Review (year 9): sine & cosine rules (inc. bearings), area of triangles, exact values	
28	A5, G20, G22	Trigonometry			Sine and cosine rules (inc. bearings)	A8, A12, G20, G21	Trigonometric graphs			Review (year 9): use graphs to solve trigonometric equations. Extend to quadratic equations	
29	A5, G20, G21, G22, G23	Trigonometry			Continue with sine and cosine rules, inc. area of triangles and exact values	6.6, 6.7, 6.8, 6.9, 6.10	Further trigonometry (FURTHER MATHS)			Use of trigonometric identities	
30	N13, A8, A9, A10	Linear graphs			Equations of parallel and perpendicular lines. Use Core 1 textbook coordinate geometry chapter	A8, A12, A13, G11, G24	Graph transformations			Review (year 9)	
31		Revision, Exam, Review	Summer Assessment	Weekly		5.1, 5.2, 5.3, 5.4	Matrices (FURTHER MATHS)			Add/subtract/multiply matrices, identity matrix, matrix transformations	
32	A4, A8, A11, A12, A18	Quadratic graphs and completing the square	Ongoing soft testing. PA, SA		Sketch quadratics, solve by completing the square and use to find turning point of curves		Factor theorem (FURTHER MATHS)		Inc. sketching cubics		
Whitsun											
33	A7, A8, A12, A14, R16	Cubic, reciprocal and exponential graphs	Ongoing soft testing. PA, SA		Plotting and sketching	A8, A9, A10, A13, A16, G11	Equations of circles	Ongoing soft testing. PA, SA		Inc. finding equations of tangents to circles	
34	N1, A5, A22	Inequalities	Target Review		On a number line, solving linear inequalities and graphical inequalities	G24, G25	Vectors			Inc. ratio problems, proving vectors are parallel and proving points lie on a straight line	
35	A8, A12, G20, G21	Trigonometric graphs	Ongoing soft testing. PA, SA		Inc. using graphs to solve trigonometric equations		Revision, exam, review	Summer Assessment	Weekly		
36	A8, A12, A13, G11, G24	Graph transformations						Revision, exam, review	All 3 papers	Weekly	
37		Review				Go over prior learning and use time to develop problem solving techniques		Revision, exam, review		Weekly	
38		Enrichment Week					Work Experience				
39		Review			Go over prior learning and use time to develop problem solving techniques						
Week	Unit	Year 11 - Higher	Assessment	Homework	Assessment objectives/ skills:						
1	A12, A14, R16	Exponential graphs	Ongoing soft testing. PA, SA		Review (year 9)						
2	A15, R14, R15	Kinematics			Distance-time graphs/velocity-time graphs. Area under a graph (trapezium rule). SUVAT equations						
3	4.1, 4.2, 4.3, 4.4, 4.5, 4.6	Differentiation (FURTHER MATHS)			Review (year 10). Extend to tangents, normals and stationary points						
4		Revision, exam, review	Autumn Assessment								
5	A23, A24, A25, 2.16	Sequences	Ongoing soft testing. PA, SA		Review (year 9): decreasing linear, quadratic, geometric, Fibonacci & fractional. Inc. limits for FM						
6	G14, S2, S4	Statistics			Review (year 9): mean/median from grouped data, back-to-back stem & leaf diagrams, quartiles						
7	P1, P3, P4, P6, P7, P8, P9	Probability	Target Review		Review (year 10): Venn diagrams. Inc. two-way tables						
October											
8	A1, A4, A6, R6, R12, G5, G6, G19	Algebraic proof, similarity and congruence	Ongoing soft testing. PA, SA		Review proof (year 10): inc. odd numbers, negative outside brackets, etc. (Inc. proof for FM)						
9	N15, A5, G1, G3, G4, G6	Angles			Review (year 9): angles in polygons & parallel lines. Focus on reasoning and algebraic problems						
10	G9, G10	Circle theorems and proofs			Review (year 9): solve problems using theorems and look at proofs						
11	N3, N6, N7, N8, N9, N14, A4, A5, A6	Surds, indices and standard form			Review (year 9 & 10): use FM questions, inc. rationalising						
12		Revision, exam, review									
13		All 3 papers	Spring Assessment								
14	N8, N15, A4, A5, G6, G11, G20, G21, G22, G23, G24	Trigonometry review	Ongoing soft testing. PA, SA		Review (year 9 & 10): SOHCAHTOA, sine & cosine rules (inc. bearings), area of triangles, exact values, trig. graphs (and transformations). Inc. 3D trig. and angle between line and plane proof (inc. identities for FM)						
Christmas											

