

Higher Scheme of Learning

Week	Topic	Notes	Specification ref.
1	Exponential graphs	Review (year 9)	A12, A14, R16
2	Kinematics	Distance-time graphs/velocity-time graphs. Area under a graph (trapezium rule). SUVAT equations	A15, R14, R15
3	Differentiation (FURTHER MATHS)	Review (year 10). Extend to tangents, normals and stationary points	4.1, 4.2, 4.3, 4.4, 4.5, 4.6
4	Revision, exam, review		
5	Sequences	Review (year 9): decreasing linear, quadratic, geometric, Fibonacci & fractional. Inc. limits for FM	A23, A24, A25, 2.16
6	Statistics	Review (year 9): mean/median from grouped data, back-to-back stem & leaf diagrams, quartiles	G14, S2, S4
7	Probability	Target Review. Review (year 10): Venn diagrams. Inc. two-way tables	P1, P3, P4, P6, P7, P8, P9
8	Algebraic proof, similarity and congruence	Review proof (year 10): inc. odd numbers, negative outside brackets, etc. (Inc. proof for FM)	A1, A4, A6, R6, R12, G5, G6, G19
HALF TERM			
9	Angles	Review (year 9): angles in polygons & parallel lines. Focus on reasoning and algebraic problems	N15, A5, G1, G3, G4, G6
10	Circle theorems and proofs	Review (year 9): solve problems using theorems and look at proofs	G9, G10
11	Surds, indices and standard form	Review (year 9 & 10): use FM questions, inc. rationalising	N3, N6, N7, N8, N9, N14, A4, A5, A6
12	Revision, exam (all 3 papers), review		
13	Revision, exam (all 3 papers), review		
14	Trigonometry review (1)	Review (year 9 & 10): SOHCAHTOA, sine & cosine rules (inc. bearings), area of triangles, exact values, trig. graphs (an	N8, N15, A4, A5, G6, G11, G20, G21, G22, G23, G24
15	Trigonometry review (2)	Review (year 9 & 10): SOHCAHTOA, sine & cosine rules (inc. bearings), area of triangles, exact values, trig. graphs (an	N8, N15, A4, A5, G6, G11, G20, G21, G22, G23, G25
CHRISTMAS			
16	Algebraic fractions	Target Review. Review (year 9): focus on co-efficient $a > 1$ (see June 2017, paper 2, qu. 19)	A1, A3, A4, A6
17	Ratio	Review (year 9): dividing line into a given ratio and writing as fractions. Inc. ratio problems from FM	N11, R2, R4, R5, R6, R7, R8
18	Matrices (FURTHER MATHS)	Review (year 10): add/subtract/multiply matrices, identity matrix, matrix transformations	5.1, 5.2, 5.3, 5.4
19	Scientific formulae	Review (year 10): SDT inc. average speed from two journeys. DMV inc. changing units. PFA	N13, R1, R11
20	Constructions	Review (year 10): constructions and loci (also review enlargements with negative scale factors)	R2, R6, G2, G7, G13, G15
21	Factor theorem (FURTHER MATHS)	Review (year 10): inc. sketching cubics	2.8, 2.10
HALF TERM			
22	Quadratics	Use the graph of one to solve another by drawing on a straight line. Complete the square (inc. FM)	A8, A9, A10, A11, A12, A18, A19
23	Functions and iterative methods	Review (year 10): composite and inverse functions (inc. domain and range from FM)	A4, A5, A6, A7, A18, A20, R16, 2.3
24	Exam papers and in-class revision		
25	Revision, exam (all 3 papers), review		
26	Revision, exam (all 3 papers), review		
27	Exam papers and in-class revision		
28	Exam papers and in-class revision		