Sandbach School Maths Department – Programme of Study (Year 2)

Date (w/b) 2022	Week	Teacher 1	Teacher 2
		Autumn term	
5 Sept	Week 1	P3.1 Arithmetic sequences P3.2 Arithmetic series P3.3 Geometric sequences P3.4 Geometric series	P5.1 Radian measure P5.2 Arc length P5.3 Areas of sectors and segments
12 Sept	Week 2	P3.5 Sum to infinity P3.6 Sigma notation P3.7 Recurrence relations	P5.4 Solving trig questions with radians P5.5 small angle approximations Mixed exercise
19 Sept	Week 3	P3.8 Modelling with series Mixed exercise	P6.1 Secant, cosecant and cotangent P6.2 Graphs of sec x, cosec x, cot x P6.3 Using sec x, cosec x, cot x
26 Sept	Week 4	P8.1 Parametric equations P8.2 Using trig identities P8.3 Curve sketching	P6.4 Trig identities P6.5 Inverse trig functions Mixed exercise
3 Oct	Week 5	P8.4 Points of intersection P8.5 Modelling with parametric equations Mixed exercise	P7.1 Addition formulae P7.2 Using the angle addition formulae P7.3 Double-angle formulae
10 Oct	Week 6	P12.1 3D coordinates P12.2 Vectors in 3D	P7.4 Solving trig equations P7.5 Simplifying a cos x +- b sin x P7.6 Proving trig identities
17 Oct	Week 7	P12.3 Solving geometric problems Mixed exercise	P7.7 Modelling with trig functions Mixed exercise
		24th – 28th Oct Half term	
31 Oct	Week 8	Year 1 S4.1 Correlation S4.2 Linear regression Mixed exercise	9.1 Differentiating sinx and cos x P9.2 Differentiating exponentials and logarithms P9.3 The chain rule
7th Nov	Week 9	Revision for PE4	Revision for PE4
14 Nov	Week 10	**Progress Exam 4**	
21 Nov	Week 11	WWW/EBI S1.1 Exponential models S1.2 Measuring correlation	P9.4 The Product rule P9.5 The Quotient rule P9.6 Differentiating trig functions
28 Nov	Week 12	S1.3 Hypothesis testing for zero correlation Mixed exercise	P9.7 Parametric differentiation P9.8 Implicit differentiation
5 Dec	Week 13	S2.1 Set notation S2.2 Conditional probability S2.3 Conditional probabilities in Venn diagrams	P9.9 Using second derivatives P9.10 Rates of change Mixed exercise
12 Dec	Week 14	S2.4 Probability formulae S2.5 Tree diagrams Mixed exercise	Catch up/consolidation
		19-4 Jan Christmas break followed by Spring term	
4 Jan	Week 15	S3.1 The normal distribution S3.2 Finding probabilities for normal distribution	M recap on yr12 Mechanics
9 Jan	Week 16	S3.3 The inverse normal distribution function S3.4 The standard normal distribution function	M5.1 Resolving forces M5.2 Inclined planes M5.3 Friction

		S3.5 Finding μ & δ	Mixed exercise
16 Jan	Week 17	S3.6 Approximating a binomial distribution Mixed exercise	M4.1 Moments M4.2 Resultant moment M4.3 Equilibrium
23 Jan	Week 18	P11.1 Integrating standard functions P11.2 Integrating f(ax+b) P11.3 Using trigonometric identities	M4.4 Centres of mass M4.5 Tilting Mixed exercise
30 Jan	Week 19	P11.4 reverse chain rule P11.5 Integration by substitution	M8.1 Vectors in kinematics M8.2 Vector methods with projectiles M8.3 Variable acceleration in one dimension
6 Feb	Week 20	P11.6 Integration by parts P11.7 Partial fractions	M8.4 Differentiating vectors M8.5 Integrating vectors Mixed exercise
13 Feb	Week 21	Revision for PE2	Revision for PE2
20-24 Feb Half term			
27 Feb	Week 23	**Progress Exam 5**	
6 March	Week 24	WWW/EBI P11.8 Finding areas P11.10 Solving differential equations	M6.1 Horizontal projection M6.2 Horizontal and vertical components M6.3 Projection at any angle
13 March	Week 25	P11.11 Modelling with differential equations P11.12 Integration as the limit of a sum Mixed exercise	M6.4 Projectile motion formulae Mixed exercise
27 March	Week 26	Catch up/consolidation	Catch up/consolidation
3 – 14 April Easter break followed by Summer term			
17 April	Week 28	P10.1 Locating roots P10.2 Iteration P10.4 Applications to modelling	P11.9 Trapezium rule P10.3 The Newton-Raphson method Mixed exercise
24 Apr	Week 29	Statistics revision	Mechanics revision
1 May	Week 30	Statistics revision	Mechanics revision
8 May	Week 31	Pure revision	Pure revision
15 May	Week 32	Pure revision	Pure revision
22 May	Week 33	Pure revision	Pure revision
29 – 2 June Half term			
5 June	Week 35	Exam p1	
12 June	Week 36	Exam p2	
19 June	Week 37	Exam p3	