

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Algebraic Thinking						Place Value and Proportion					
	Sequences	Understand and use algebraic notation		Equality and equivalence			Place value and ordering integers and decimals		Fraction, decimal and percentage equivalence			
Spring	Applications of Number						Directed Number		Fractional Thinking			
	Solving problems with addition & subtraction	Solving problems with multiplication and division			Fractions & percentages of amounts		Operations and equations with directed number		Addition and subtraction of fractions			
Summer	Lines and Angles						Reasoning with Number					
	Constructing, measuring and using geometric notation		Developing geometric reasoning				Developing number sense		Sets and probability		Prime numbers and proof	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Proportional Reasoning						Representations					
	Ratio and scale		Multiplicative change		Multiplying and dividing fractions		Working in the Cartesian plane		Representing data		Tables & Probability	
Spring	Algebraic techniques						Developing Number					
	Brackets, equations and inequalities				Sequences	Indices	Fractions and percentages		Standard index form		Number sense	
Summer	Developing Geometry						Reasoning with Data					
	Angles in parallel lines and polygons			Area of trapezia and circles		Line symmetry and reflection	The data handling cycle			Measures of location		

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Reasoning with Algebra						Constructing in 2 and 3 Dimensions					
	Straight line graphs		Forming and solving equations		Testing conjectures		Three-dimensional shapes			Constructions and congruency		
Spring	Reasoning with Number						Reasoning with Geometry					
	Numbers		Using percentages		Maths and money		Deduction		Rotation and translation		Pythagoras' Theorem	
Summer	Reasoning with Proportion						Representations and Revision					
	Enlargement and similarity		Solving ratio & proportion problems		Rates		Probability		Algebraic representation		Revision	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Similarity						Developing Algebra					
	Congruence, similarity and enlargement			Trigonometry			Representing solutions of equations and inequalities			Simultaneous equations		
Spring	Geometry						Proportions and Proportional Change					
	Angles & bearings		Working with circles		Vectors		Ratios & fractions		Percentages and Interest		Probability	
Summer	Delving into data				Using number					Expressions		
	Collecting, representing and interpreting data				Non-calculator methods		Types of number and sequences		Indices and Roots		Manipulating expressions	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Graphs						Algebra					
	Gradients & lines		Non-linear graphs		Using graphs		Expanding & factorising		Changing the subject		Functions	
Spring	Reasoning						Revision and Communication					
	Multiplicative		Geometric		Algebraic		Transforming & constructing		Listing & describing		Show that...	
Summer	Revision						Examinations					

Year 12 A Level Maths (Edexcel)

		Week		Unit	Title	Homework every week A	Unit	Title	Homework every week B
04/09/2023	Monday	A		Staff Training Day					
08/09/2023	Friday			Algebra and functions		Baseline Test	Algebra and functions		Baseline Test
11/09/2023	Monday	B		Algebra and Functions	Algebra expressions		Algebra and functions	Quadratics	HM1
12/09/2023	Tuesday								
13/09/2023	Wednesday								
14/09/2023	Thursday								
15/09/2023	Friday								
18/09/2023	Monday	A		Algebra and Functions	Algebra expressions & Graphs and transformations	HM2	Algebra and functions	Quadratics	
19/09/2023	Tuesday								
20/09/2023	Wednesday								
21/09/2023	Thursday								
22/09/2023	Friday								
25/09/2023	Monday	B		Algebra and Functions	Graphs and transformations		Algebra and functions	Equations and Inequalities	HM3
26/09/2023	Tuesday								
27/09/2023	Wednesday								
28/09/2023	Thursday								
29/09/2023	Friday								
02/10/2023	Monday	A		Algebra and Functions	Graphs and transformations	HM4	Algebra and functions	Equations and Inequalities	
03/10/2023	Tuesday					Review exercise			
04/10/2023	Wednesday					Unit Test			
05/10/2023	Thursday								
06/10/2023	Friday								
09/10/2023	Monday	B		Further Algebra	Algebraic division, factor theorem and proof		Coordinate Geometry in x-y plane	Straight line graphs	HM5
10/10/2023	Tuesday								
11/10/2023	Wednesday								
12/10/2023	Thursday								
13/10/2023	Friday								
16/10/2023	Monday	A		Further Algebra	Algebraic division, factor theorem and proof	HM6	Coordinate Geometry in x-y plane	Straight line graphs	
17/10/2023	Tuesday								
18/10/2023	Wednesday								
19/10/2023	Thursday								
20/10/2023	Friday								
				Half Term					

06/11/2024	Monday	B							
07/11/2024	Tuesday								HM7
08/11/2024	Wednesday			Further Algebra	Algebraic division, factor theorem and proof		Coordinate Geometry in x-y plane	Circles	
09/11/2024	Thursday								
10/11/2024	Friday								
13/11/2023	Monday	A				HM8			
14/11/2023	Tuesday								
15/11/2023	Wednesday			Further Algebra	The binomial expansion		Coordinate Geometry in x-y plane	Circles	
16/11/2023	Thursday								
17/11/2023	Friday								
20/11/2023	Monday	B							HM9
21/11/2023	Tuesday								Review exercise
22/11/2023	Wednesday			Further Algebra	The binomial expansion		Coordinate Geometry in x-y plane	Circles	Unit Test
23/11/2023	Thursday								
24/11/2023	Friday			Staff Training Day					
27/11/2023	Monday	A							
28/11/2023	Tuesday					HM10			
29/11/2023	Wednesday					Review exercise			
30/11/2023	Thursday			Further Algebra	The binomial expansion	Unit Test	Trigonometry	Trigonometric identities and equations	
01/12/2023	Friday								
04/12/2023	Monday	B							HM11
05/12/2023	Tuesday								
06/12/2023	Wednesday			Trigonometry	Trigonometric ratios and graphs		Trigonometry	Trigonometric identities and equations	
07/12/2023	Thursday								
08/12/2023	Friday								
11/12/2023	Monday	A				HM12			
12/12/2023	Tuesday								
13/12/2023	Wednesday			Trigonometry	Trigonometric ratios and graphs		Trigonometry	Trigonometric identities and equations	
14/12/2023	Thursday								
15/12/2023	Friday								
18/12/2023	Monday	B							HM13
19/12/2023	Tuesday								
20/12/2023	Wednesday			Trigonometry	Trigonometric ratios and graphs		Trigonometry	Trigonometric identities and equations	
				Christmas Holiday					
03/01/2024	Wednesday	A		Staff Training Day					
04/01/2024	Thursday								
05/01/2024	Friday			Vectors	Definitions, magnitude/direction, addition and scalar multiplication	HM14	Trigonometry	Trigonometric identities and equations	Review exercise
									Unit Test
08/01/2024	Monday	B							HM15
09/01/2024	Tuesday								
10/01/2024	Wednesday								
11/01/2024	Thursday			Vectors	Definitions, magnitude/direction, addition and scalar multiplication		Differentiation	Definition, differentiating polynomials, second derivatives	
12/01/2024	Friday								

15/01/2024	Monday	A		Vectors	Definitions, magnitude/direction, addition and scalar multiplication	HM16	Differentiation	Definition, differentiating polynomials, second derivatives			
16/01/2024	Tuesday										
17/01/2024	Wednesday										
18/01/2024	Thursday										
19/01/2024	Friday										
22/01/2024	Monday	B		Vectors	Position vectors, distance between two points, geometric problems		Differentiation	Gradients, tangents, normals, maxima and minima	HM17		
23/01/2024	Tuesday										
24/01/2024	Wednesday										
25/01/2024	Thursday										
26/01/2024	Friday										
29/01/2024	Monday	A		Vectors	Position vectors, distance between two points, geometric problems	HM18	Differentiation	Gradients, tangents, normals, maxima and minima			
30/01/2024	Tuesday										
31/01/2024	Wednesday										
01/02/2024	Thursday										
02/02/2024	Friday										
05/02/2024	Monday	B		Vectors	Position vectors, distance between two points, geometric problems	Review exercise	Differentiation	Gradients, tangents, normals, maxima and minima	HM19		
06/02/2024	Tuesday								Unit Test		Review exercise
07/02/2024	Wednesday										Unit Test
08/02/2024	Thursday										
09/02/2024	Friday										
				Half Term							
12/02/2024	Monday	A		Integration	Definition as opposite of differentiation	HM20	Exponentials and logarithms	Exponential functions and natural logarithms			
13/02/2024	Tuesday										
14/02/2024	Wednesday										
15/02/2024	Thursday										
16/02/2024	Friday										
26/02/2024	Monday	B		Integration	Definition as opposite of differentiation		Exponentials and logarithms	Exponential functions and natural logarithms	HM21		
27/02/2024	Tuesday										
28/02/2024	Wednesday										
29/02/2024	Thursday										
01/03/2024	Friday										
04/03/2024	Monday	A		Integration	Definite integrals and areas under curves	HM22	Exponentials and logarithms	Direct impact of elastic spheres. Newton's law of restitution. Loss of kinetic energy due to impact			
05/03/2024	Tuesday										
06/03/2024	Wednesday										
07/03/2024	Thursday										
08/03/2024	Friday										
11/03/2024	Monday	B		Integration	Definite integrals and areas under curves		Exponentials and logarithms	Exponential functions and natural logarithms	HM23		
12/03/2024	Tuesday										
13/03/2024	Wednesday										
14/03/2024	Thursday										
15/03/2024	Friday										

18/03/2024	Monday	A				HM24			Review exercise
19/03/2024	Tuesday					Review exercise			Unit Test
20/03/2024	Wednesday				Integration	Definite integrals and areas under curves	Exponentials and logarithms	Exponential functions and natural logarithms	
21/03/2024	Thursday								
22/03/2024	Friday								
25/03/2024	Monday	B							HM25
26/03/2024	Tuesday								
27/03/2024	Wednesday				Quantities and units in mechanics	Introduction to mathematical modelling and standard S.I. units of length, time and mass	Statistical sampling	Introduction to sampling terminology&and use sampling techniques	
28/03/2024	Thursday								
					Easter Holiday				
15/04/2024	Monday	A			Staff Training Day				
16/04/2024	Tuesday				Year 12 Mock Examinations				
17/04/2024	Wednesday								
18/04/2024	Thursday								
19/04/2024	Friday								
22/04/2024	Monday	B							Review exercise
23/04/2024	Tuesday								Unit Test
24/04/2024	Wednesday				Kinematics 1 (constant acceleration)	Graphical representation of velocity, acceleration and displacement	Statistical sampling	Introduction to sampling terminology&and use sampling techniques	
25/04/2024	Thursday								
26/04/2024	Friday								
29/04/2024	Monday	A							HM27
30/04/2024	Tuesday								
01/05/2024	Wednesday				Kinematics 1 (constant acceleration)	Graphical representation of velocity, acceleration and displacement	Data presentation and interpretation	Calculation and interpretation of measures of location and measures of variation; Understand and use coding	
02/05/2024	Thursday								
03/05/2024	Friday								
06/05/2024	Monday	B							
07/05/2024	Tuesday								
08/05/2024	Wednesday				Kinematics 1 (constant acceleration)	Motion in a straight line under constant acceleration; suvat formulae ; Vertical motion under gravity	Data presentation and interpretation	Calculation and interpretation of measures of location and measures of variation; Understand and use coding	
09/05/2024	Thursday								
10/05/2024	Friday								
13/05/2024	Monday	A							HM29
14/05/2024	Tuesday								
15/05/2024	Wednesday								
16/05/2024	Thursday				Kinematics 1 (constant acceleration)	Motion in a straight line under constant acceleration; suvat formulae ; Vertical motion under gravity	Data presentation and interpretation	Interpret diagrams for single-variable data; Interpret scatter diagrams and regression lines; Recognise outliers	
17/05/2024	Friday								
20/05/2024	Monday	B							Review exercise
21/05/2024	Tuesday								Unit Test
22/05/2024	Wednesday								
23/05/2024	Thursday				Forces & Newton's laws	Newton's first law, force diagrams, equilibrium, introduction to i, j system	Data presentation and interpretation	Interpret diagrams for single-variable data; Interpret scatter diagrams and regression lines; Recognise outliers	
24/05/2024	Friday								

				Half Term					
03/06/2024	Monday	A		Forces & Newton's laws	Newton's first law, force diagrams, equilibrium, introduction to i, j system		Probability	Mutually exclusive events; Independent events	HM31
04/06/2024	Tuesday								
05/06/2024	Wednesday								
06/06/2024	Thursday								
07/06/2024	Friday								
10/06/2024	Monday	B		Forces & Newton's laws	Newton's second law, (no resolving forces or use of $F = \mu R$); Newton's third law: equilibrium, smooth pulley problems	HM32	Probability	Mutually exclusive events; Independent events	Review exercise
11/06/2024	Tuesday					Unit Test			
12/06/2024	Wednesday								
13/06/2024	Thursday								
14/06/2024	Friday								
17/06/2024	Monday	A		Forces & Newton's laws	Newton's second law, (no resolving forces or use of $F = \mu R$); Newton's third law: equilibrium, smooth pulley problems	Review exercise	Statistical Distributions	Use and identify discrete distributions; Calculate probabilities using the binomial distribution (calculator use expected)	HM33
18/06/2024	Tuesday					Unit Test			
19/06/2024	Wednesday								
20/06/2024	Thursday								
21/06/2024	Friday								
24/06/2024	Monday	B		Kinematics 2 (variable acceleration)	Variable force; Calculus to determine rates of change for kinematics	HM34	Statistical Distributions	Use and identify discrete distributions; Calculate probabilities using the binomial distribution (calculator use expected) 2 directed towards the centre of the circle;	Review exercise
25/06/2024	Tuesday								Unit Test
26/06/2024	Wednesday								
27/06/2024	Thursday								
28/06/2024	Friday								
01/07/2024	Monday	A		Kinematics 2 (variable acceleration)	Variable force; Calculus to determine rates of change for kinematics		Statistical Hypothesis Testing	Language of hypothesis testing; Significance levels 2 directed towards the centre of the circle;	HM35
02/07/2024	Tuesday								
03/07/2024	Wednesday								
04/07/2024	Thursday								
05/07/2024	Friday								
08/07/2024	Monday	B		Kinematics 2 (variable acceleration)	Use of integration for kinematics problems i.e. $r = \int v dt$, $v = \int a dt$	HM36	Statistical Hypothesis Testing	Carry out hypothesis tests involving the binomial distribution	
09/07/2024	Tuesday								
10/07/2024	Wednesday								
11/07/2024	Thursday								
12/07/2024	Friday								
15/07/2024	Monday			Kinematics 2 (variable acceleration)	Use of integration for kinematics problems i.e. $r = \int v dt$, $v = \int a dt$	Review exercise	Statistical Hypothesis Testing	Carry out hypothesis tests involving the binomial distribution	Review exercise
16/07/2024	Tuesday	A				Unit Test			Unit Test
17/07/2024	Wednesday								
18/07/2024	Thursday								
19/07/2024	Friday					Staff Training Day			

Year 12 Further Maths (Edexcel)

		Week		Unit	Title	Homework every week A	Unit	Title	Homework every week B
04/09/2023	Monday	A		Staff Training Day					
08/09/2023	Friday			Complex numbers (part 1)	Introduction of complex numbers, basic manipulation		Matrices	Matrix addition, subtraction and multiplication	
11/09/2023	Monday	B		Complex numbers (part 1)	Introduction of complex numbers, basic manipulation		Matrices	Matrix addition, subtraction and multiplication	HM1
12/09/2023	Tuesday								
13/09/2023	Wednesday								
14/09/2023	Thursday								
15/09/2023	Friday								
18/09/2023	Monday	A		Complex numbers (part 1)	Argand diagrams	HM2	Matrices	Inverse of 2x2 and 3x3 matrices	
19/09/2023	Tuesday					Review exercise			
20/09/2023	Wednesday					Unit Test			
21/09/2023	Thursday								
22/09/2023	Friday								
25/09/2023	Monday	B		Complex numbers (part 2)	Argand diagrams & Modulus and argument		Matrices	Inverse of 2x2 and 3x3 matrices	HM3
26/09/2023	Tuesday								
27/09/2023	Wednesday								
28/09/2023	Thursday								
29/09/2023	Friday								
02/10/2023	Monday	A		Complex numbers (part 2)	Modulus and argument	HM4	Matrices	Inverse of 2x2 and 3x3 matrices	
03/10/2023	Tuesday								
04/10/2023	Wednesday								
05/10/2023	Thursday								
06/10/2023	Friday								
09/10/2023	Monday	B		Complex numbers (part 2)	Loci		Matrices	Simultaneous equations	HM5
10/10/2023	Tuesday								
11/10/2023	Wednesday								
12/10/2023	Thursday								
13/10/2023	Friday								
16/10/2023	Monday	A		Complex numbers (part 2)	Loci	HM6	Matrices	Simultaneous equations	
17/10/2023	Tuesday					Review exercise			
18/10/2023	Wednesday					Unit Test			
19/10/2023	Thursday								
20/10/2023	Friday								
				Half Term					

06/11/2024	Monday	B							
07/11/2024	Tuesday								
08/11/2024	Wednesday			Series	Sums of series		Matrices/Linear transformations	Linear transformations	HM7
09/11/2024	Thursday								
10/11/2024	Friday								
13/11/2023	Monday	A							
14/11/2023	Tuesday								
15/11/2023	Wednesday			Series	Sums of series		Matrices/Linear transformations	Linear transformations	
16/11/2023	Thursday								
17/11/2023	Friday								
20/11/2023	Monday	B				Review exercise			HM9
21/11/2023	Tuesday					Unit Test			Review exercise
22/11/2023	Wednesday			Series	Sums of series		Matrices/Linear transformations	Linear transformations	Unit Test
23/11/2023	Thursday								
24/11/2023	Friday			Staff Training Day					
27/11/2023	Monday	A							
28/11/2023	Tuesday								
29/11/2023	Wednesday			Momentum and impulse	Momentum and impulse; impulse-momentum principle; conservation of momentum applied to collisions; jerking string problems	HM10	Algebra and functions	Roots of polynomial equations	
30/11/2023	Thursday								
01/12/2023	Friday								
04/12/2023	Monday	B				Review exercise			HM11
05/12/2023	Tuesday					Unit Test			
06/12/2023	Wednesday			Momentum and impulse	Momentum as a vector (i, j problems) Impulse-momentum principle in vector form		Algebra and functions	Roots of polynomial equations	
07/12/2023	Thursday								
08/12/2023	Friday								
11/12/2023	Monday	A							
12/12/2023	Tuesday								
13/12/2023	Wednesday			Work, energy and power	Work, kinetic energy; derivation of units and formulae	HM12	Algebra and functions	Formation of polynomial equations	
14/12/2023	Thursday								
15/12/2023	Friday								
18/12/2023	Monday	B							
19/12/2023	Tuesday			Work, energy and power	Work, kinetic energy; derivation of units and formulae		Algebra and functions	Formation of polynomial equations	HM13
20/12/2023	Wednesday								Review exercise
									Unit Test
				Christmas Holiday					
03/01/2024	Wednesday	A		Staff Training Day					
04/01/2024	Thursday								
05/01/2024	Friday			Work, energy and power	Potential energy, work-energy principle, conservation of mechanical	HM14	Proof	Proof by mathematical induction	
08/01/2024	Monday	B							
09/01/2024	Tuesday								
10/01/2024	Wednesday			Work, energy and power	Potential energy, work-energy principle, conservation of mechanical energy, problem solving		Proof	Proof by mathematical induction	HM15
11/01/2024	Thursday								
12/01/2024	Friday								

15/01/2024	Monday	A		Work, energy and power	Power; derivation of units and formula	HM16	Proof	Proof by mathematical induction	Review exercise
16/01/2024	Tuesday					Unit Test			
17/01/2024	Wednesday								
18/01/2024	Thursday								
19/01/2024	Friday								
22/01/2024	Monday	B		Work, energy and power	Power; derivation of units and formula	Review exercise	Calculus	Volumes of revolution	HM17
23/01/2024	Tuesday					Unit Test			
24/01/2024	Wednesday								
25/01/2024	Thursday								
26/01/2024	Friday								
29/01/2024	Monday	A		Vectors	Vector and Cartesian equations of a line and a plane	HM18	Calculus	Volumes of revolution	
30/01/2024	Tuesday								
31/01/2024	Wednesday								
01/02/2024	Thursday								
02/02/2024	Friday								
05/02/2024	Monday	B		Vectors	Vector and Cartesian equations of a line and a plane		Calculus	Volumes of revolution	HM19
06/02/2024	Tuesday								Review exercise
07/02/2024	Wednesday								Unit Test
08/02/2024	Thursday								
09/02/2024	Friday								
				Half Term					
12/02/2024	Monday	A		Vectors	Scalar product	HM20	Elastic collisions in one dimension	Direct impact of elastic spheres. Newton's law of restitution. Loss of kinetic energy due to impact	
13/02/2024	Tuesday								
14/02/2024	Wednesday								
15/02/2024	Thursday								
16/02/2024	Friday								
26/02/2024	Monday	B		Vectors	Scalar product		Elastic collisions in one dimension	Direct impact of elastic spheres. Newton's law of restitution. Loss of kinetic energy due to impact	HM21
27/02/2024	Tuesday								
28/02/2024	Wednesday								
29/02/2024	Thursday								
01/03/2024	Friday								
04/03/2024	Monday	A		Vectors	Problems involving points, lines and planes	HM22	Elastic collisions in one dimension	Direct impact of elastic spheres. Newton's law of restitution. Loss of kinetic energy due to impact	
05/03/2024	Tuesday								
06/03/2024	Wednesday								
07/03/2024	Thursday								
08/03/2024	Friday								
11/03/2024	Monday	B		Vectors	Problems involving points, lines and planes	Review exercise	Elastic collisions in one dimension	Problem solving (including 'successive' impacts)	HM23
12/03/2024	Tuesday					Unit Test			
13/03/2024	Wednesday								
14/03/2024	Thursday								
15/03/2024	Friday								

18/03/2024	Monday	A				HM24			
19/03/2024	Tuesday				Elastic strings and springs and elastic energy	Hooke's law and definition of modulus of elasticity. Derivation of elastic potential energy formula.		Elastic collisions in one dimension	Problem solving (including 'successive' impacts)
20/03/2024	Wednesday								
21/03/2024	Thursday								
22/03/2024	Friday								
25/03/2024	Monday	B							HM25
26/03/2024	Tuesday				Elastic strings and springs and elastic energy	Hooke's law and definition of modulus of elasticity. Derivation of elastic potential energy formula.		Elastic collisions in one dimension	Problem solving (including 'successive' impacts)
27/03/2024	Wednesday								
28/03/2024	Thursday								
					Easter Holiday				
15/04/2024	Monday	A			Staff Training Day				
16/04/2024	Tuesday				Year 12 Mock Examinations				
17/04/2024	Wednesday								
18/04/2024	Thursday								
19/04/2024	Friday								
22/04/2024	Monday	B							
23/04/2024	Tuesday				Elastic strings and springs and elastic energy	Hooke's law and definition of modulus of elasticity. Derivation of elastic potential energy formula.	HM26	Elastic collisions in two dimensions	Oblique impact of a smooth sphere with a fixed surface Successive oblique impacts of a sphere with smooth plane surfaces
24/04/2024	Wednesday								
25/04/2024	Thursday								
26/04/2024	Friday								
29/04/2024	Monday	A							
30/04/2024	Tuesday				Elastic strings and springs and elastic energy	Hooke's law and definition of modulus of elasticity. Derivation of elastic potential energy formula.		Elastic collisions in two dimensions	Oblique impact of a smooth sphere with a fixed surface Successive oblique impacts of a sphere with smooth plane surfaces
01/05/2024	Wednesday								
02/05/2024	Thursday								
03/05/2024	Friday								
06/05/2024	Monday	B							
07/05/2024	Tuesday				Elastic strings and springs and elastic energy	Hooke's law and definition of modulus of elasticity. Derivation of elastic potential energy formula.	HM28	Elastic collisions in two dimensions	Oblique impact of a smooth sphere with a fixed surface Successive oblique impacts of a sphere with smooth plane surfaces
08/05/2024	Wednesday								Review exercise
09/05/2024	Thursday								Unit Test
10/05/2024	Friday								
13/05/2024	Monday	A							
14/05/2024	Tuesday				Elastic strings and springs and elastic energy	Problem solving: equilibrium and using the work-energy principle		Motion in a circle (part 1)	Angular speed, central force, radial acceleration
15/05/2024	Wednesday								
16/05/2024	Thursday								
17/05/2024	Friday								
20/05/2024	Monday	B							
21/05/2024	Tuesday				Elastic strings and springs and elastic energy	Problem solving: equilibrium and using the work-energy principle	HM30	Motion in a circle (part 1)	Angular speed, central force, radial acceleration
22/05/2024	Wednesday						Review exercise		
23/05/2024	Thursday						Unit Test		
24/05/2024	Friday								

				Half Term					
03/06/2024	Monday	A		Elastic strings and springs and elastic energy	Problem solving: equilibrium and using the work-energy principle		Motion in a circle (part 1)	Uniform motion in a horizontal circle	HM31
04/06/2024	Tuesday								
05/06/2024	Wednesday								
06/06/2024	Thursday								
07/06/2024	Friday								
10/06/2024	Monday	B		Centres of mass of plane figures	Moments; centre of mass of a discrete distribution (1 and 2 dimensions); framework and uniform lamina (rectilinear shapes)	HM32	Motion in a circle (part 1)	Uniform motion in a horizontal circle	
11/06/2024	Tuesday								
12/06/2024	Wednesday								
13/06/2024	Thursday								
14/06/2024	Friday								
17/06/2024	Monday	A		Centres of mass of plane figures	Moments; centre of mass of a discrete distribution (1 and 2 dimensions); framework and uniform lamina (rectilinear shapes)		Motion in a circle (part 1)	Uniform motion in a horizontal circle	HM33
18/06/2024	Tuesday								
19/06/2024	Wednesday								
20/06/2024	Thursday								
21/06/2024	Friday								
24/06/2024	Monday	B		Centres of mass of plane figures	Centres of mass of plane figures	HM34	Motion in a circle (part 2)	Understand that a particle moving in a horizontal circle with constant speed has an acceleration of magnitude $2r\omega^2$ directed towards the centre of the circle;	
25/06/2024	Tuesday								
26/06/2024	Wednesday								
27/06/2024	Thursday								
28/06/2024	Friday								
01/07/2024	Monday	A		Centres of mass of plane figures	Variable force; Calculus to determine rates of change for kinematics		Motion in a circle (part 2)	Understand that a particle moving in a horizontal circle with constant speed has an acceleration of magnitude $2r\omega^2$ directed towards the centre of the circle;	HM35
02/07/2024	Tuesday								
03/07/2024	Wednesday								
04/07/2024	Thursday								
05/07/2024	Friday								
08/07/2024	Monday	B		Centres of mass of plane figures	Further centres of mass	HM36	Motion in a circle (part 2)	Motion in a vertical circle: radial and tangential acceleration; Conservation of energy in this context	
09/07/2024	Tuesday								
10/07/2024	Wednesday								
11/07/2024	Thursday								
12/07/2024	Friday								
15/07/2024	Monday	A		Centres of mass of plane figures	Further centres of mass	Review exercise	Motion in a circle (part 2)	Motion in a vertical circle: radial and tangential acceleration; Conservation of energy in this context	Review exercise
16/07/2024	Tuesday					Unit Test			Unit Test
17/07/2024	Wednesday								
18/07/2024	Thursday								
19/07/2024	Friday			Staff Training Day					

YEAR 13 TOPICS (AQA)									
TEACHING WEEK	SCHOOL WEEK	WEEK COMMENCING	TEACHER 1		TEACHER 2		Teaching hours	HOMEWORK	
1	A	04 September 2023	Chapter 12 – Algebra 2 & Chapter 14 – Trigonometric identities	12.1 Further mathematical proof	Chapter 13 – Sequences	13.1 The binomial series	1	Dr Frost	
2	B	11 September 2023		12.2 Functions		13.1 The binomial series	2		Dr Frost
3	A	18 September 2023		12.2 Functions		13.2 Introduction to Sequence	3	Dr Frost	
4	B	25 September 2023		12.3 Parametric equations		13.3 Arithmetic sequences	4	Dr Frost	
5	A	02 October 2023		12.3 Algebraic fractions		13.3 Arithmetic sequences	5	Dr Frost	
6	B	09 October 2023		12.5 Partial fractions		13.4 Geometric sequences	6	Dr Frost	
7	A	16 October 2023		14.1 Radians		13.4 Geometric sequences	7	Dr Frost	
Half term: Monday 23 October - Friday 29 October 2023									
8	B	30 October 2023	Chapter 14 – Trigonometric identities & Chapter 16 – Integration and differential equations	14.2 Reciprocal and inverse trigonometric functions	Chapter 15 – Differentiation 2	15.2 Exponential and logarithmic functions	1	Dr Frost	
9	A	06 November 2023		14.3 Compound angles		15.3. The product and quotient rule	2		Dr Frost
10	B	13 November 2023		14.3 Compound angles		15.3. The product and quotient rule	3	Dr Frost	
11	A	20 November 2023		14.4 Equivalent forms for $\cos \theta + \sin \theta$		15.5 The Chain rule	4	Dr Frost	
12	B	27 November 2023		14.5 Equivalent forms for $\cos \theta + \sin \theta$		15.6 The inverse functions	5	Dr Frost	
13	A	04 December 2023		16.1 Standard integrals		5.7 Implicit differentiation	6	Dr Frost	
14	B	11 December 2023		16.2 Integration by substitution		15.8 Parametric functions	7	Dr Frost	
CHRISTMAS HOLIDAYS [WC 20/12/23 TO WC 26/12/23] +bank holiday and training day (start back 4/01/24)									
15	A	01 January 2024	Chapter 16 – Integration and differential equations & Chapter 20 – Probability and continuous random variables	16.3 Integration by parts	Chapter 17 – Numerical methods & Chapter 18 – Motion in two dimensions	17.1 Simple root finding	1	Dr Frost	
16	B	08 January 2024		16.4 Integration using partial fractions		17.2 Iterative root finding	2		Dr Frost
17	A	15 January 2024		16.5 Differential equations		17.3 Newton-Raphson root finding	3	Dr Frost	
18	B	22 January 2024		20.1 Conditional probability		17.4 Numerical integration	4	Dr Frost	
19	A	29 January 2024		20.1 Conditional probability		18.1 Two-dimensional motion with constant acceleration	5	Dr Frost	
20	B	05 February 2024		20.2 Modelling with probability		18.2 Two-dimensional motion with variable acceleration	6	Dr Frost	
Half term: Monday 12 February - Friday 16 February 2024									
21	A	19 February 2024	Chapter 20 – Probability and continuous random variables & Chapter 21 – Hypothesis testing 2	20.3 Normal distribution	Chapter 18 – Motion in two dimensions	18.3 Motion under gravity	1	Dr Frost	
22	B	26 February 2024		20.4 Using the Normal distribution as an approximation to the binomial		18.4 Motion under forces	2		Dr Frost
23	A	04 March 2024		20.4 Using the Normal distribution as an approximation to the binomial		19.1 Vectors in 3D	3	Dr Frost	
24	B	11 March 2024		21.1 Testing correlation		19.2 Statics	4	Dr Frost	
25	A	18 March 2024		21.2 Testing a Normal distribution		19.3 Dynamics 2	5	Dr Frost	
26	B	25 March 2024				19.4 Moments	6	Dr Frost	
EASTER HOLIDAYS- [WC 29/03/2024 TO WC 12/04/2024]									

26	A	15 April 2024		Consolidation and Revision	Chapter 19 – Forces	Consolidation and Revision	1	Dr Frost	SUMMER TERM 1	
										2
										3
										4
27	B	22 April 2024		Consolidation and Revision		Consolidation and Revision	5	Dr Frost		
							6			
					7					
28	A	29 April 2024	Consolidation and Revision	Consolidation and Revision	1	Dr Frost				
					2					
					3					
					4					
29	B	06 May 2024	Consolidation and Revision	Consolidation and Revision	5	Dr Frost				
					6					
					7					
30	A	13 May 2024	Consolidation and Revision	Consolidation and Revision	1	Dr Frost				
					2					
					3					
					4					
31	B	20 May 2024	Consolidation and Revision	Consolidation and Revision	5	Dr Frost				
					6					
					7					
Half term: Monday 27 May - Friday 31 May 2024										