

National curriculum or specification coverage

In year 12 students cover the AS content of the Edexcel A level Maths course. This combines the elements of Pure, Statistics and Mechanics.

Topics covered are:

Pure: Algebraic expressions, Quadratics, Equations and Inequalities, Graphs and transformations, Straight line graphs, Circles, Algebraic methods, The binomial expansion, Trigonometric ratios, Trigonometric identities and equations, Vectors, Differentiation, Integration, Exponentials and logarithms.

Statistics: Data collection, Measures of location and spread, Representations of data, Correlation, Probability, Statistical distributions, Hypothesis testing.

Mechanics: Modelling in mechanics, Constant acceleration, Forces and motion, Variable acceleration.

Date	Exams/ Assessments	Learning Intentions	Core Task/Assessments
31/08/26		Algebraic expressions, Quadratics (2.1-2.3)	Core task - Baseline test On higher topics from KS4. Exit tickets on topics this half term Homework tasks starting after the baseline test – 1 per week
07/09/26		Equations and inequalities	
14/09/26		Straight line graphs (5.1-5.3) Circles (6.1)	
21/09/26	Baseline Test	Graphs and transformations Quadratics (2.4-2.6)	
28/09/26		Graphs and transformations Data Collection	
05/10/26		Straight line graphs (5.4-5.5) Data collection	
12/10/26		Circles (6.2-6.5) Measures of location and spread	
19/10/26		Circles (6.2-6.5) Measures of location and spread	Exit tickets on topics this half term Homework tasks – 1 per week Core task – Practice paper E
26/10/26		HALF TERM	
02/11/26		Differentiation Representations of data	
09/11/26		Differentiation Representations of data	
16/11/26	Y12	Differentiation Representations of data	
23/11/26	Y12	Differentiation Correlation	

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30/11/26		Differentiation Integration	
07/12/26		Differentiation Integration	
14/12/26		Differentiation Integration	
21/12/26	CHRISTMAS HOLIDAY		
28/12/26			
04/01/27		Vectors Integration	Exit tickets on topics this half term Homework tests – 1 per week Core task – Practice paper A
11/01/27		Vectors Integration	
18/01/27		Modelling in mechanics Probability	
25/01/27		Modelling in mechanics Probability	
01/02/27		Modelling in mechanics Statistical distributions	
08/02/27		Modelling in mechanics Statistical distributions	
15/02/27	HALF TERM		
22/02/27		Modelling in mechanics Statistical distributions	Exit tickets on topics this half term Homework tests – 1 per week Core task – Practice paper F
01/03/27		Constant acceleration Hypothesis testing	
08/03/27		Constant acceleration Hypothesis testing	
15/03/27		Constant acceleration Hypothesis testing	
22/03/27		Forces and motion Trigonometric ratios	
29/03/27	SPRING BREAK		
05/04/27			
12/04/27		Forces and motion Trigonometric ratios	Exit tickets on topics this half term Homework tests – 1 per week Core task – Practice paper 2019 Pure and Stats and mech
19/04/27	Y12		
26/04/27		Forces and motion Trigonometric ratios	
03/05/27		Variable acceleration Trigonometric identities and equations	
10/05/27		Variable acceleration Trigonometric identities and equations	
17/05/27		Algebraic methods Trigonometric identities and equations	
24/05/27		Algebraic methods Exponentials and logarithms	
31/05/27	HALF TERM		
07/06/27		Algebraic methods Exponentials and logarithms	Exit tickets on topics this half term Homework tests – 1 per week Core task – July assessment
14/06/27		The binomial expansion Exponentials and logarithms	
21/06/27		The binomial expansion Exponentials and logarithms	
28/06/27		The binomial expansion Exponentials and logarithms	
05/07/27		Catch up	
12/07/27		Catch up	

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