

# Curriculum Area: Mathematics AS Level Year 12



All teaching for year 12 is based on the Pearson Texts; Pure Mathematics Year 1/ AS and Applied, Statistics and Mechanics Year 1/ AS

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 12 Statistics (5 Periods)</b>	<b>Unit: Pure</b>	<b>Unit Pure</b>	<b>Unit: Pure</b>	<b>Unit: Applied</b>	<b>Unit: Applied</b>	<b>Unit: Applied and Pure</b>
	Wk 1: Algebraic expression Chapter 1	Wk 1: Graphs and transformations Chapter 4	Wk 1: Mocks?	Wk 1: Test and review Chapter 12 and 13	Wk 1: Test and review Chapter 1,2, 3 and 4	Wk 1: Test Chapter 4 -7
	Wk 2: Algebraic expressions Chapter 1	Wk 2: Review and test Chapter 1 to 4	Wk 2: Integration Chapter 13	Wk 2: Statistical sampling Chapter 1	Wk 2: Probability Chapter 5	Wk 2: Exponential and Logs Chapter 14
	Wk 3: Quadratics Chapter 2	Wk 3: Differentiation Chapter 12	Wk 3: Integration Chapter 13	Wk 3: Statistical sampling Chapter 1	Wk 3: Probability Chapter 5	Wk 3: Exponential and Logs Chapter 14
	Wk 4: Quadratics Chapter 2	Wk 4: Differentiation Chapter 12	Wk 4: Integration Chapter 13	Wk 4: Presentation and interpretation of data Chapter 2	Wk 4: Statistical distributions Chapter 6	<b>MOCK WEEK is one week this half term</b>
	Wk 5: Equations and inequalities Chapter 3	Wk 5: Differentiation Chapter 12	Wk 5: Integration Chapter 13	Wk 5: Presentation and interpretation of data Chapter 2 and 3	Wk 5; Hypothesis Testing Chapter 7	Wk 5: Algebraic Methods (not proof) Chapter 1 year 2 text
	Wk 6: Equations and inequalities Chapter 3	Wk 6: Differentiation Chapter 12	Wk 6: Integration Chapter 13	Wk : Correlation Chapter 4	Wk 6: Hypothesis Testing Chapter 7	Wk 6: Algebraic Methods (not proof) Chapter 1 year 2 text
Wk 7: Graphs and transformations Chapter 4	Wk 7: Differentiation Chapter 12					

	Autumn1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Year 12 Mechanics (4 Periods)</b>	<b>Unit: Pure</b>	<b>Unit: Pure</b>	<b>Unit: Pure</b>	<b>Unit: Applied</b>	<b>Unit: Applied</b>	<b>Unit: Applies and Pure</b>
	Wk 1: Straight line graphs Chapter 5	Wk 1 Algebraic methods Chapter 7	Wk 1: <b>Mock Week is this half term</b>	Wk 1:Test and review Chapter 9, 10 & 11	Wk 1: Review and test Chapter 8 and 9	Wk 1: Test Chapter 10 and 11
	Wk 2: Straight line graphs Chapter 5	Wk 2: Binomial expansion Chapter 8	Wk 2 Trigonometric identities Chapter 10	Wk 2: Quantities and units in mechanics Chapter 8	Wk 2: Forces and Newtons laws: Chapter 10	Wk 2: MOCKS
	Wk 3: Circles Chapter 6	Wk 3: Binomial expansion Chapter 8	Wk 3 Trigonometric identities Chapter 10	Wk 3: Kinematics (constant acceleration) Chapter 9	Wk 3: Forces and Newtons laws Chapter 10	Wk 3: Functions Chapter 2
	Wk 4: Circles Chapter 6	Wk4: Test chapter 7&8 Start Chapter 9	Wk 4: Trigonometric identities Chapter 10	Wk 4: Kinematics (constant acceleration) Chapter 9	Wk 4 Forces and Newtons laws: Chapter 10	Wk 4: Functions Chapter 2
	Wk 5: Circles Chapter 6	Wk 5: Trigonometric ratios Chapter 9	Wk 5 Vectors Chapter 11	Wk 5: Kinematics (constant acceleration)	Wk 5 Variable acceleration Chapter 11	Wk 5: Functions Chapter 2
	WK 6: : Test Chapter 5, 6 start Chapter 7	Wk 6: Trigonometric ratios Chapter 9	Wk 6: Vectors Chapter 11	Wk 6: Kinematics (constant acceleration)	Wk 6: Variable acceleration Chapter 11	<b>MOCK WEEK is in this half term</b>
	WK 7: Algebraic methods Chapter 7	Wk 7: Trigonometric ratios Chapter 9				

**Curriculum Area: Mathematics A Level Year 13**



All teaching for year 13 is based on the Pearson Texts; Pure Mathematics Year 2 and Applied, Statistics and Mechanics Year 2

	<b>Autumn1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Year 13 Mechanics (4 Periods)</b>	<b>Unit: Pure</b>	<b>Unit: Pure</b>	<b>Unit: Applied</b>	<b>Unit: Applied</b>	<b>Unit: Pure</b>	<b>Unit:</b>
	Wk 1: Radians Chapter 5	Wk 1: Trigonometry and Modelling Chapter 7	Wk 1: Moments Chapter 4	Wk 1: Test chapters 4, 5 & 6	Wk 1: Test Mechanics	
	Wk 2: Radians Chapter 5	Wk 2: Trigonometry and Modelling Chapter 7	Wk 2: Moments Chapter 4	Wk 2: Application of Forces Chapter 7	Wk 2: Vectors Chapter 12	
	Wk 3: Trigonometric Functions Chapter 6	Wk 3: Test Chapter 5,6 &7	Wk 3 Forces and Friction Chapter 5	Wk 3: Application of Forces Chapter 7	Wk 3: Vectors Chapter 12	
	Wk 4: Trigonometric Functions Chapter 6	Wk 4: Numerical Methods Chapter 10	Wk 4: Forces and Friction Chapter 5	Wk 4: Further Kinematics Chapter 8	Wk 4: Revision	
	Wk 5: Trigonometric Functions Chapter 6	Wk 5: Numerical Methods Chapter 10	Wk 5: Projectiles Chapter 6	Wk 5: Further Kinematics Chapter 8	Wk 5: Revision	
	Wk 6: Trigonometry and Modelling Chapter 7 <b>Mocks will be 1 week this term</b>	Wk 6: Numerical Methods Chapter 10  <b>Proof from chapter 1 needs to be integrated into lessons</b>	Wk 6: Projectiles Chapter 6	<b>Mock Week is this half term</b>	Wk 6: Revision	
<b>Final Assessment:</b>						

	<b>Autumn1</b>	<b>Autumn 2</b>	<b>Spring 1</b>	<b>Spring 2</b>	<b>Summer 1</b>	<b>Summer 2</b>
<b>Year 13 Statistics (5 Periods)</b>	<b>Unit: Pure</b>	<b>Unit: Pure</b>	<b>Unit: Applied</b>	<b>Unit: Applied and Pure</b>	<b>Unit: Pure</b>	<b>Unit:</b>
	Wk 1: Sequences and series Chapter 3	Wk 1: Parametric Chapter 8	Wk 1: Regression and Correlation Chapter 1	Wk 1: Normal Distribution Chapter 3	Wk 1: Integration Chapter 11	Wk 1:
	Wk 2: Sequences and series Chapter 3	Wk 2: Differentiation Chapter 9	Wk 2: Regression and Correlation Chapter 1	Wk 2: Normal Distribution Chapter 3	Wk 2: Integration Chapter 11	Wk 2:
	Wk 3: Binomial Expansion Chapter 4	Wk 3: Differentiation Chapter 9	Wk 3: Conditional Probability Chapter 2	Wk 3: Test Statistics	Wk 3: Integration Chapter 11	Wk 3:
	Wk 4: Binomial expansion Chapter 4	Wk 4: Differentiation Chapter 9	Wk 4: Conditional Probability Chapter 2	Wk 4: Integration Chapter 11	Wk 4: Integration Chapter 11	Wk 4:
	Wk 5: Test chapter 3 & 4 include chapter 2 Functions & start chapter 4	Wk 5: Differentiation Chapter 9	Wk 5: Test Chapter 1 & 2	Wk 5: Integration Chapter 11	Wk 5: Integration Chapter 11	Wk 5:
	Wk 6: Parametric Chapter 8  <b>Mocks will be 1 week this term</b>	Wk 6: Differentiation Chapter 9  Wk 7: Test chapter 8 & 9	Wk 6: Normal Distribution Chapter 3	Wk 6: Mocks ???	Wk 6: Test Chapter 11	Wk 6:
<b>Final Assessment:</b>						

