

Overview:

Subject: Mathematics

Year: 12

Key Content:

Pure content:

- 1. Algebra and functions
- 2. Coordinate geometry in the (x, y) plane
- 3. Further algebra
- 4. Trigonometry
- 5. Vectors
- 6. Differentiation
- 7. Integration
- 8. Exponentials and logarithms
- 9. Proof (A-Level)
- 10. Algebraic and partial fractions (A-Level)

Statistics content:

- 1. Statistical sampling
- 2. Data presentation and interpretation
- 3. Probability
- 4. Statistical distributions
- 5. Statistical hypothesis testing
- 6. Regression and correlation (A-Level)

Mechanics content:

- 1. Quantities and units in mechanics
- 2. Kinematics
- 3. Forces and Newton's laws
- 4. Kinematics 2
- 5. Moments (A-Level)

Assessment Objectives:

- **OT1.1** Construct and present mathematical arguments through appropriate use of diagrams; sketching graphs; logical deduction; precise statements involving correct use of symbols and connecting language, including: constant, coefficient, expression, equation, function, identity, index, term, variable.
- **OT1.2** Understand and use mathematical language and syntax as set out in the content.
- **OT1.3** Understand and use language and symbols associated with set theory, as set out in the content. Apply to solutions of inequalities and probability.
- **OT1.4** Understand and use the definition of a function; domain and range of functions.
- **OT1.5** Comprehend and critique mathematical arguments, proofs and justifications of methods and formulae, including those relating to applications of mathematics
- **OT2.1** Recognise the underlying mathematical structure in a situation and simplify and abstract appropriately to enable problems to be solved.
- **OT2.2** Construct extended arguments to solve problems presented in an unstructured form, including problems in context.
- OT2.3 Interpret and communicate solutions in the context of the original problem.



- OT2.4 Understand that many mathematical problems cannot be solved analytically, but numerical methods permit solution to a required level of accuracy.
- **OT2.5** Evaluate, including by making reasoned estimates, the accuracy or limitations of solutions, including those obtained using numerical methods.
- **OT2.6** Understand the concept of a mathematical problem-solving cycle, including specifying the problem, collecting information, processing and representing information and interpreting results, which may identify the need to repeat the cycle.
- **OT2.7** Understand, interpret and extract information from diagrams and construct mathematical diagrams to solve problems, including in mechanics.
- **OT3.1** Translate a situation in context into a mathematical model, making simplifying assumptions.
- **OT3.2** Use a mathematical model with suitable inputs to engage with and explore situations (for a given model or a model constructed or selected by the student).
- **OT3.3** Interpret the outputs of a mathematical model in the context of the original situation (for a given model or a model constructed or selected by the student).
- **OT3.4** Understand that a mathematical model can be refined by considering its outputs and simplifying assumptions; evaluate whether the model is appropriate.
- OT3.5 Understand and use modelling assumptions

Key Assessment Points:

- Baseline Assessment at beginning of year covering prerequisite knowledge
- Assessment at the end of Term 1 covering Pure 1-3, Statistics 1-2, Mechanics 1-2
- Assessment at the end of Term 2 covering Pure 1-7, Statistics 1-5, Mechanics 1-2
- Assessment at the end of Term 3 covering all AS-Level content

Christian Ethos:

A Christian ethos will be promoted in Maths lessons by encouraging a sense of wonder in the natural world and a respect for all of God's creation. Students will treat each other with mutual respect and learn to work together through group and practical activities, and consider Christian views on ethical issues discussed. The incorporation of real-life skills and a large emphasis on problem solving will also encourage a wider scope on the natural world and further develop students' sense of wonder.

British Values:

- Individual liberty in the sense of being able to develop and express one's own views, tolerance and mutual respect for one another's views is taught through the topics in which different views and/or ethics are involved.
- **The rule of law** is addressed in units of work covering statistical applications, through students understanding the need for following classroom rules.
- Democracy is taught through student debates when reasoning mathematically and explaining proofs.
- Group activities in Maths require students to engage in team work and show mutual respect for each other.



Long Term Plan:

Subject: Mathematics

Year: 1 Pure Statistics Mechanics

Week	Weekly	Key Topics /Learning Intentions and/or Key Questions		
	Plan	Teacher 1 (3-hour teacher)	Teacher 2 (2-hour teacher)	
1	5 th Sept	1 - Baseline Assessment	1 – Solving quadratics (19-22)	
		2 – Index Laws, Expanding, Factorising (2-9)	2 - Completing the square (22-24)	
		3 – Indices & Surds (9-14)		
2	12th Sept	1 - Functions (25-27)	1 – Modelling with quadratics (32-35)	
		2 – Quadratic graphs (27-30)	2 – Linear simultaneous equations (39-40)	
		3 - Discriminant (30-32)		
3	19th Sept	1 – Quadratic simultaneous equations (41-42)	1 – Quadratic inequalities (48-51)	
	'	2 – Graphical simultaneous equations (42-45)	2 – Inequalities on graphs (51-53)	
		3 – Linear inequalities (46-48)		
4	26 th Sept	1 – Regions (53-55)	1 - Points of intersection (68-70)	
		2 – Cubic & quartic graphs (60-66)	2 – Translating graphs (71-74)	
		3 – Reciprocal graphs (66-67)		
5	3rd Oct	1 – Stretching graphs (75-78)	1 – Population and sampling (2-7)	
Ū	0 00.	2 – Transforming functions (79-81)	2 – Non-random sampling & types of data (7-10)	
		3 – Pure Review	2 · · · · · · · · · · · · · · · · · · ·	
6	10th Oct	1 – Measures of central tendency (21-25)	1 – Variance and standard deviation (30-33)	
•		2 – Other measures of location (25-28)	2 – Coding (33-36)	
		3 – Measures of spread (28-29)		
7	17 th Oct	1 – Outliers (41-43)	1 - Histograms (48-52)	
,	17 001	2 – Box Plots (43-45)	2 – Comparing data (53-54)	
		3 - Cumulative frequency (46-48)	2 Comparing data (55 5 1)	
		HALF TERM		
8	31st Oct	1 - y = mx + c (90-93)	1 – Length and area with straight lines (100-103)	
		2 – Equations of straight lines (93-96)	2 – Pure 1-4 Assessment	
		3 – Parallel and perpendicular lines (97-100)	_ 1010 1 17 10000110111	
9	7 th Nov	1 – Assessment Review Lesson	1 - Equation of a circle (117-120)	
•	' ' ' ' ' '	2 – Modelling with straight lines (103-108)	2 – Intersections of lines and circles (121-122)	
		3 – Midpoints and perp. bisectors (114-117)		
10	14 th Nov	1 – Using tangent & chord properties (123-128)	1 - Simplifying algebraic fractions (138-139)	
	14 1101	2 – Circles and triangles (128-132)	2 – Dividing polynomials (139-142)	
		2 - Lines and Graphs review lesson	2 Dividing polynomials (107-142)	
11	21st Nov	1 – The factor theorem (143-146)	1 – Pascal's triangle & factorial notation (159-163)	
	2111107	2 – Mathematical proof (146-150)	2 – Algebraic Methods review lesson	
		3 – Methods of proof (150-153)	2 - Algebraic Melilous Teview lesson	
12	28th Nov	1 – The binomial expansion (163-164)	1 - Models & assumptions (119-122)	
12	201404	2 – Solving binomial problems (165-167)	2 – Quantities and units (122-124)	
		3 – Binomial estimation (167-169)	z – Quantines and units (122-124)	
13	5 th Dec	1 – Working with vectors (125-127)	1&2 - Constant acceleration formulae (137-146)	
13	3 Dec		1&2 – Constant acceleration formulae (137-140)	
		2 – Displacement-time graphs (131-133)		
		3 – Velocity-time graphs (133-136)		
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14	12 th Dec	Vertical motion under gravity (146-152)	ASSESSMENTS	
		CHRISTMAS HOLIDAY	S	
14	12 th Dec	CHRISTMAS HOLIDAYS 1 – The cosine rule (174-179)	1 - Solving triangle problems (187-191)	
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15	2 nd Jan	CHRISTMAS HOLIDAY: 1 - The cosine rule (174-179) 2 - The sine rule (179-185) 3 - Area of triangles (185-187)	1 – Solving triangle problems (187-191) 2 – Graphs of sine, cosine and tangent (192-194)	
		CHRISTMAS HOLIDAYS 1 – The cosine rule (174-179) 2 – The sine rule (179-185)	1 - Solving triangle problems (187-191)	



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18	1 <i>7</i>	16 th Jan	1 – Harder trigonometric equations (217-219)	1 – Introduction to vectors (231-235)
18			2 – Equations and identities (219-222)	2 - Representing vectors (235-238)
18 23" Jan 1 - Magnitude and direction (239-242) 8.2 - Modelling with vectors (248-251) 2 - Position vectors (242-244) 3 - Solving geometric problems (244-247) 1 - Venn diagrams (72-75) 2 - Mutually exclusivity & independence (75-78) 3 - Colluding probabilities (70-72) 2 - Mutually exclusivity & independence (75-78) 3 - Colluding probabilities (70-72) 2 - Mutually exclusivity & independence (75-78) 3 - Control distribution (88-8) 8 - The binomial distribution (88-8) 8 - The binomial distribution (88-8) 8 - The binomial distribution (88-9) 8 - Cardients, tangents, and normal (268-270) 3 - Differentiating x ² n (262-264) 2 - Gradients, tangents, and normal (268-270) 3 - Differentiating x ² n (262-264) 2 - Second order derivatives (279-271) 2 - Second order derivatives (271-272) 2 - Modelling with differentiation (279-281) 3 - Stationary points (273-276) 2 - Modelling with differentiation (279-281) 3 - Stationary points (273-276) 2 - Area under curves (297-300) 2 - Finding functions (293-295) 3 - Finding functions (293-295)				
2 - Position vectors [242-244] 3 - 3 - Soking geometric problems [244-247] 1 - Verm diagrams [72-75] 2 - Mutually exclusivity & independence [75-78] 3 - Setting (25-2-20) 3 - Differentiating two or more terms [244-248] 3 - Setting (25-2-24) 3 - Definite integrals (25-2-27) 3 - Definite integrals (18	23rd Ian		182 - Modelling with vectors (248-251)
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2 - Linear regression (63-67) 2 - Mutually exclusivity & independence (75-78) 3 - Calculating probabilities (70-72) 1 - Tree diagrams (78-80) 1 - Differentiating two or more terms (264-268) 2 - Finding the derivative (259-262) 2 - Finding the derivative (259-262) 2 - Finding the derivative (259-262) 2 - Gooderies, tangents, and normal (268-270) 3 - Differentiating **N (628-262) 2 - Modelling with differentiation (277-278) 3 - Stationary points (273-276) 2 - Indefinite integrals (290-293) 2 - Indefinite integrals (290-293) 2 - Area under curves (297-300) 3 - Finding functions (293-295) 2 - Area under curves (297-300) 3 - Finding functions (293-295) 2 - Finding critical values (101-105) 2				
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2 - Probability distributions (84-88) 3 - The binomial distribution (89-91)	20	7 th Feb	1 - Tree diagrams (78-80)	1&2 - Cumulative probabilities (91-94)
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2 - Finding the derivative (259-262) 3 - Differentiating x*n (259-264) 2 - Gradients, tangents, and normal (268-270) 3 - Differentiating x*n (259-264) 1 - Increasing & decreasing functions (270-271) 2 - Second order derivatives (271-272) 2 - Modelling with differentiation (279-281) 3 - Stationary points (273-276) 2 - Modelling with differentiation (279-281) 3 - Stationary points (273-276) 2 - Modelling with differentiation (279-281) 3 - Finding functions (290-293) 3 - Finding functions (293-295) 2 - Area under curves (297-300) 3 - Finding functions (293-295) 2 - Area under curves (297-300) 2 - Finding critical values (101-105) 2 - Finding cri	01	01# 5.1		1 Diff 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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3			2 – Second order derivatives (271-272)	2 - Modelling with differentiation (279-281)
23				
2 - Indefinite integrals (290-293)	23	7th Mar		1 - Definite integrals (205, 207)
3 - Finding functions (293-295) 1 - Hypothesis testing (99-101) 283y - Area between curves and lines (302-306) 2 - Finding critical values (101-105) 25 21st Mar 1 - One-tailed tests (105-107) 182 - Large Data Set 182 - Large Data Set 25t Mar 2 - Two-tailed tests (107-109) ASSESSMENTS 27 18th Apr 1 - Exponential functions (312-314) 2 - y=e^+x (314-317) 2 - Laws of logarithms (319-321) 2 - Laws of logarithms (321-324) 2 - y=e^+x (314-317) 2 - Laws of logarithms (321-324) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data (138-333) 2 - Pure Review 2 - Pure Review 2 - Pure Review 2 - Pure Review 3 - Connected particles (160-162) 3 - Forces and acceleration (162-166) 3 - Forces and acceleration (162-166) 3 - Forces and acceleration (162-168) 3 - Connected particles & Pulleys (173-177) 2 - Using differentiation (185-186) 3 - Connected particles & Pulleys (173-177) 3 - Pulleys (173-177) 3 - Connected particles & Pulleys (173-17	23	/ /Mul		
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32 23rd May Pure Review Mechanics Review	28 29 30	25 th Apr 2 nd May 9 th May	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186)
HALF TERM 33 6th June Pure Year 1 Revision Statistics Year 1 Revision Mechanics Year 1 Revision Statistics Assessments 1 - Proof by contradiction (2-5) 1&2 - Partial fractions (9-11) 2&3 - Algebraic fractions (5-8) 1 - Repeated factors (12-13) 1&2 - Algebraic Methods review (19-21) 2&3 - Algebraic division (14-18) 38 11th July Pure Assessment Review Statistics Assessment Review	28 29 30	25 th Apr 2 nd May 9 th May	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186)
33 6th June Pure Year 1 Revision Statistics Year 1 Revision 34 13th June Pure Year 1 Revision Mechanics Year 1 Revision 35 20th June END-OF-YEAR ASSESSMENTS 36 27th June 1 - Proof by contradiction (2-5) 2&3 - Algebraic fractions (5-8) 37 4th July 1 - Repeated factors (12-13) 2&3 - Algebraic division (14-18) 38 11th July Pure Assessment Review Statistics Assessment Review	28 29 30 31	25 th Apr 2 nd May 9 th May	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review
34 13th June Pure Year 1 Revision Mechanics Year 1 Revision 35 20th June END-OF-YEAR ASSESSMENTS 36 27th June 1 - Proof by contradiction (2-5) 1&2 - Partial fractions (9-11) 28.3 - Algebraic fractions (5-8) 1 - Repeated factors (12-13) 1&2 - Algebraic Methods review (19-21) 38 11th July Pure Assessment Review Statistics Assessment Review	28 29 30 31	25 th Apr 2 nd May 9 th May	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review
35 20th June END-OF-YEAR ASSESSMENTS 36 27th June 1 - Proof by contradiction (2-5) 1&2 - Partial fractions (9-11) 2&3 - Algebraic fractions (5-8) 1 - Repeated factors (12-13) 2&3 - Algebraic division (14-18) 2&3 - Algebraic division (14-18) 38 11th July Pure Assessment Review Statistics Assessment Review	28 29 30 31	25 th Apr 2 nd May 9 th May 16 th May	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review
36 27 th June 1 - Proof by contradiction (2-5) 1&2 - Partial fractions (9-11) 2&3 - Algebraic fractions (5-8) 37 4 th July 1 - Repeated factors (12-13) 1&2 - Algebraic Methods review (19-21) 2&3 - Algebraic division (14-18) 38 11 th July Pure Assessment Review Statistics Assessment Review	28 29 30 31 32	25 th Apr 2 nd May 9 th May 16 th May 23 rd May	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision
2&3 – Algebraic fractions (5-8) 37	28 29 30 31 32 33 34	25 th Apr 2 nd May 9 th May 16 th May 6 th June 13 th June	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision
2&3 – Algebraic fractions (5-8) 37	28 29 30 31 32 33 34	25 th Apr 2 nd May 9 th May 16 th May 6 th June 13 th June	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS
37 4th July 1 - Repeated factors (12-13) 1&2 - Algebraic Methods review (19-21) 2&3 - Algebraic division (14-18) 38 11th July Pure Assessment Review Statistics Assessment Review	28 29 30 31 32 33 34 35	25 th Apr 2 nd May 9 th May 16 th May 23 rd May 6 th June 13 th June 20 th June	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision END-OF-YEA	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS
28.3 – Algebraic division (14-18) 38 11 th July Pure Assessment Review Statistics Assessment Review	28 29 30 31 32 33 34 35	25 th Apr 2 nd May 9 th May 16 th May 23 rd May 6 th June 13 th June 20 th June	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision END-OF-YEA 1 - Proof by contradiction (2-5)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS
38 11th July Pure Assessment Review Statistics Assessment Review	28 29 30 31 32 33 34 35 36	25 th Apr 2 nd May 9 th May 16 th May 23 rd May 6 th June 13 th June 20 th June 27 th June	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision Pure Year 1 Revision Pure Year 1 Revision END-OF-YEA 1 - Proof by contradiction (2-5) 2&3 - Algebraic fractions (5-8)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS 1&2 - Partial fractions (9-11)
	28 29 30 31 32 33 34 35 36	25 th Apr 2 nd May 9 th May 16 th May 23 rd May 6 th June 13 th June 20 th June 27 th June	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision Pure Year 1 Revision END-OF-YEA 1 - Proof by contradiction (2-5) 2&3 - Algebraic fractions (5-8) 1 - Repeated factors (12-13)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS 1&2 - Partial fractions (9-11)
39 I8 ^m July Mechanics Assessment Keview Pure Assessment Review	28 29 30 31 32 33 34 35 36 37	25 th Apr 2 nd May 9 th May 16 th May 23 rd May 6 th June 13 th June 20 th June 27 th June 4 th July	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision Pure Year 1 Revision END-OF-YE 1 - Proof by contradiction (2-5) 2&3 - Algebraic fractions (5-8) 1 - Repeated factors (12-13) 2&3 - Algebraic division (14-18)	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS 1&2 - Partial fractions (9-11) 1&2 - Algebraic Methods review (19-21)
	28 29 30 31 31 32 33 34 35 36 37 38	25 th Apr 2 nd May 9 th May 16 th May 23 rd May 6 th June 13 th June 20 th June 27 th June 4 th July 11 th July	2 - y=e^x (314-317) 3 - Exponential modelling (317-319) 1 - Solving using logarithms (324-325) 2 - Working with natural logarithms (326-328) 3 - Logarithms and non-linear data I (328-333) 1 - Force diagrams (157-159) 2 - Forces as vectors (160-162) 3 - Forces and acceleration (162-166) 1 - Connected particles (169-172) 2 - Pulleys (173-177) 3 - Connected particles & pulleys 1 - Maxima and minima problems (186-188) 2 - Using integration (188-191) 3 - Constant acceleration formulae (191-195) Pure Review HALF TERM Pure Year 1 Revision Pure Year 1 Revision END-OF-YEA 1 - Proof by contradiction (2-5) 2&3 - Algebraic fractions (5-8) 1 - Repeated factors (12-13) 2&3 - Algebraic division (14-18) Pure Assessment Review	2 - Laws of logarithms (321-324) 1 - Logarithms and non-linear data II (328-333) 2 - Pure Review 1&2 - Motion in 2 dimensions (166-169) 1 - Functions of time (182-184) 2 - Using differentiation (185-186) Statistics Review Mechanics Review Statistics Year 1 Revision Mechanics Year 1 Revision AR ASSESSMENTS 1&2 - Partial fractions (9-11) 1&2 - Algebraic Methods review (19-21) Statistics Assessment Review