

Mathematics A level – Medium Term Plan – (2016 - 2017)

Week beginning		Topics/Assessment objectives to be covered in class	Resources	Flip tasks	Consolidation
5 th Sept 2016	Core 3 Module: Mechanics1 Module:	<ul style="list-style-type: none"> Rcos, Rsin & Applying trig identities to solving trig equations SUVAT Equations (horizontal) 		Review summer holiday tasks	C3 Textbook(Issued) - Chapter 6, page 83-92 & Chapter 7, page 120-124 M1 textbook (Issued) - Chapter 2, page 4-17
12 th Sept 2016	Core3 Module: Mechanics1 Module:	<ul style="list-style-type: none"> Using Trig identities in Proofs SUVAT Equations (vertical) 		C3 Booklet - Students to work on task 1 (Trigonometry, Reciprocal Functions, Identities, Double Angle Formulae, Solving Trig Equations and Proofs) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C3 Textbook(Issued) - Chapter 6, page 93-105 & Chapter 7, page 106-120, 124-131 M1 textbook (Issued) - Chapter 2, page 17-24
19 th Sept 2016	Core 3 Module: Mechanics1 Module:	<ul style="list-style-type: none"> Functions & Mappings - Domain & Range, $f^{-1}(x)$, Composite Functions Speed/Time & Distance/Time Graphs 		M1 Booklet - Students to work on task 1 (SUVAT) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C3 Textbook(Issued) - Chapter 2, page 12-23 M1 textbook (Issued) - Chapter 2, page 24-35
26 th Sept 2016	Core 3 Module: Mechanics1 Module:	<ul style="list-style-type: none"> Introducing e^x & $\ln x$ Using $F=ma$ & Resolving forces 			C3 Textbook(Issued) - Chapter 3, page 31-36 M1 textbook (Issued) - Chapter 3, page 37-47
3 rd Oct 2016	Core 3 Module: Mechanics1 Module:	<ul style="list-style-type: none"> Solving equations involving e^x & $\ln x$ Coefficient of friction 		C3 Booklet - Students to work on task 2 (Functions & Mappings, Exponential & Ln Functions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C3 Textbook(Issued) - Chapter 3, page 36-44 M1 textbook (Issued) - Chapter 3, page 48-52
10 th Oct 2016	Core 3 Module:	<ul style="list-style-type: none"> Iterative Formulae Inclined planes 		M1 Booklet - Students to work on task 2 (Inclined Planes) and hand in for assessment. Marked work will then be improved upon through responding to specific	C3 Textbook(Issued) - Chapter 4, page 45-57

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	<u>Mechanics1 Module:</u>			feedback and completing corrections. See booklet for details and specific dates.	M1 textbook (Issued) - Chapter 3 , page 53-65
17 th Oct 2016	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module::</u>	<ul style="list-style-type: none"> • Iterative Formulae • C4 Binomial Expansion • Moments (Beams) 			C3 Textbook(Issued) - Chapter 4, page 45-57 C2 Textbook (Issued) - Chapter, page M1 textbook (Issued) - Chapter 5, page 116-131
<h2>Half Term</h2>					
31 st Oct 2016	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> • Introducing Modulus Function • Partial Fractions • Impulse & Momentum 		C3 Booklet - Students to work on task 3 (Numerical Methods) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C3 Textbook(Issued) - Chapter 5, page 63-69 C4 Textbook (Issued) - Chapter, page M1 textbook (Issued) - Chapter 3, page 65-68
7 th Nov 2016	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> • Graphical Transformations - Modulus Graphs • Partial Fractions - 'special cases' • Collisions 		M1 Booklet - Students to work on task 3 (Impulse & Momentum, Collisions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C3 Textbook(Issued) - Chapter 5, page 72-82 C4 Textbook (Issued) - Chapter, page M1 textbook (Issued) - Chapter 3, page 66-67
14 th Nov 2016	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> • Solving Equations Involving modulus Functions • Using Partial Fractions to Integrate • Pulleys 		C4 Booklet - Students to work on task 1 (Binomial Expansion & Integration Involving Partial Fractions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C3 Textbook(Issued) - Chapter 5, page 69-72 C4 Textbook (Issued) - Chapter, page M1 textbook (Issued) - Chapter 3, page 37-47

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21 st Nov 2016	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p> <p><u>Mechanics1 Module:</u></p>	<ul style="list-style-type: none"> • Domain & Range and $f^{-1}(x)$ - involving modulus functions • Integration by Substitution • Towbars 		<p>C3 Booklet - Students to work on task 4 (Transforming Graphs of Functions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	<p>C3 Textbook(Issued) - Chapter 2, page 23-30</p> <p>C4 Textbook (Issued) - Chapter, page</p> <p>M1 textbook (Issued) - Chapter 2, page 17-24</p>
28 th Nov 2016	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p> <p><u>Mechanics1 Module:</u></p>	<ul style="list-style-type: none"> • Algebraic Fractions - Revision from yr12 • Integration by Parts, including $\ln x$ • Introducing Vectors 		<p>M1 Booklet - Students to work on task 4 (Pulleys & Towbars) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	<p>C3 Textbook(Issued) - Chapter 1, page 1-11</p> <p>C4 Textbook (Issued) - Chapter, page</p> <p>M1 textbook (Issued) - Chapter 6, page 133-148</p>
5 th Dec 2016	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p> <p><u>Mechanics1 Module:</u></p>	<ul style="list-style-type: none"> • Chain Rule, Product Rule, Quotient Rule - Revision from yr12 • Integration of odd & even Powers of $\sin x$ and $\cos x$ • Using Vectors 		<p>C4 Booklet - Students to work on task 2 (Integration by Substitution, Parts and Partial Fractions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	<p>C3 Textbook(Issued) - Chapter 8, page 132-138</p> <p>C4 Textbook (Issued) - Chapter, page</p> <p>M1 textbook (Issued) - Chapter 6, page 148-153</p>
12 th Dec 2016	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p> <p><u>Mechanics1 Module:</u></p>	<ul style="list-style-type: none"> • Chain Rule, Product Rule, Quotient Rule Involving Trig Fns • Implicit Differentiation 		<p>C3 Booklet - Students to work on task 5 (Algebraic Fractions & Differentiation) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates</p>	<p>C3 Textbook(Issued) - Chapter 8, page 138-151</p> <p>C4 Textbook (Issued) - Chapter, page</p>
<h2>Xmas Holiday</h2>					
		<ul style="list-style-type: none"> • C3 Revision 			<p>C3 Textbook(Issued) - Practice Paper & Examination Style Paper page 157-160</p>

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Mock Week

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23 rd Jan 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Solving Differential Equations by Separating the Variables 	M1 & C3 Past Papers	M1 Booklet - Students to work on task 5 (Past Paper) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook (Issued) - Chapter, page
30 th Jan 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Solving Differential Equations in Context 	M1 & C3 Past Papers	C4 Booklet - Students to work on task 3 (Implicit Differentiation & Differential Equations) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook (Issued) - Chapter, page
6 th Feb 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Introducing Parametric Equations and Finding $\frac{dy}{dx}$ 	M1 & C3 Past Papers	C3 Booklet - Students to work on task 6 (Revision) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook(Issued) - Chapter, page
<h2>Half Term</h2>					
20 th Feb 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Parametric Equations - Integrating 	M1 & C3 Past Papers	examsolutions.com - Students to review their C3 booklet task 6 by watching video tutorials for the past paper questions they need to correct M1 Booklet - Students to work on task 6 (Past Paper) and hand in for assessment. Marked work will then be improved upon through responding to specific	C4 Textbook(Issued) - Chapter, page

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				feedback and completing corrections. See booklet for details and specific dates.	
27 th Feb 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Volumes of Revolution 	M1 & C3 Past Papers	C4 Booklet - Students to work on task 4 (Parametric Equations & Volumes of Revolution) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook(Issued) - Chapter, page
6 th Mar 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Revision of all the C4 Integration Techniques 	M1 & C3 Past Papers	C3 Booklet - Students to work on task 7 (Past Paper - January 2011 Paper) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook(Issued) - Chapter, page
13 th Mar 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Choosing the Correct Integration Method 	M1 & C3 Past Papers	<p>examsolutions.com - Students to review their C3 booklet task 7 by watching the video tutorials for the questions they need to correct</p> <p>M1 Booklet - Students to work on task 7 (Past Paper Revision questions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	C4 Textbook(Issued) - Chapter, page
20 th Mar 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Trapezium Rule 	M1 & C3 Past Papers	C4 Booklet - Students to work on task 5 (Trapezium rule) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook(Issued) - Chapter, page
27 th Mar 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module:</u>	<ul style="list-style-type: none"> Vectors 	M1 & C3 Past Papers	C3 Booklet - Students to work on task 8 (Past Paper - May 2011 Paper) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.	C4 Textbook(Issued) - Chapter, page

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Easter Holiday

<h2>Easter Holiday</h2>					
17 th April 2017		•	M1 & C3 Past Papers	<p>examsolutions.com - Students to review their C3 booklet task 8 by watching the video tutorials for the questions they need to correct</p> <p>M1 Booklet - Students to work on task 8 (Past Paper Revision questions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	
24 th April 2017		•	M1 & C3 Past Papers	<p>C4 Booklet - Students to work on task 6 (Vectors) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	
1 st May 2017	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p> <p><u>Mechanics1 Module:</u></p>		M1, C3 & C4 Past Papers	<p>C3 Booklet - Students to work on task 9 (Past paper - January 2012 Paper) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	
8 th May 2017	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p> <p><u>Mechanics1 Module:</u></p>	•	M1, C3 & C4 Past Papers	<p>examsolutions.com - Students to review their C3 booklet task 9 by watching the video tutorials for the questions they need to correct</p> <p>M1 Booklet - Students to work on task 9 (Past Paper Revision questions) and hand in for assessment. Marked work will then be improved upon through responding to specific feedback and completing corrections. See booklet for details and specific dates.</p>	
15 th May 2017	<p><u>Core 3 Module:</u></p> <p><u>Core 4 Module:</u></p>	•	M1, C3 & C4 Past Papers	<p>C4 Booklet - Students to work on task 7 (Past paper) and hand in for assessment. Marked work will then be improved upon through responding to specific</p>	

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	<u>Mechanics1 Module:</u>			feedback and completing corrections. See booklet for details and specific dates.	
22 nd May 2017	<u>Core 3 Module:</u> <u>Core 4 Module:</u> <u>Mechanics1 Module</u>	•			
Half Term					