

## Second year doubles June/July Planner with page numbers

			Core	FP1
27/4	2020 summer assignment 1 set		<u>Core Green Book 1 AS</u> Complex numbers P1-16 Adding, multiplying, conjugate, dividing, solving polynomials with complex solutions	<u>Core Green Book 1 AS</u> Vectors P167-183 Equation of a line in three dimensions Equation of a plane in three dimensions Scalar product
4/5	2020 summer assignment 2 set	2020 summer assignment 1 due	Argand diagrams P17-42 Argand diagrams, mod-arg form, simple loci,	Vectors P183-201 Calculating angles between lines and planes Points of intersection Finding perpendiculars
11/5	2020 summer assignment 3 set	2020 summer assignment 2 due	<u>Core Green Book 1 AS</u> Sum of $r$ and $r^2$ etc P43-53 <u>Core Green Book 2 A level</u> Method of differences P31-39	Vector consolidation Mixed Exercise 9 P202
18/5	2020 summer assignment 4 set	2020 summer assignment 3 due	Consolidation Mixed Exercises	<u>FP1 Blue Book</u> Inequalities P92-104
25/5	Half term?			
1/6	Progression leave			
8/6	2020 summer assignment 5 set	2020 summer assignment 4 due	<u>Core Green Book 2 A level</u> Maclaurin Series P40-50	<u>FP1 Blue Book</u> The $t$ formula P116-130

17/6	2020 summer assignment 6 set	2020 summer assignment 5 due	<u>Core Green Book 1</u> Matrices P94--121 Operations, determinant, 2X2 inverse	<u>FM1 Orange Book</u> Work Energy Power <u>FP2 Blue book</u> Number theory <u>Decision Purple Book</u> Algorithms – sorting and bin packing etc P1-24
24/6	2020 summer assignment 7 set	2020 summer assignment 6 due	<u>Core Green Book 1</u> Linear Transformations using 2x2 matrix P1287-143	<u>FM1 Orange Book</u> Work Energy Power P15-37 <u>FP2 blue Book</u> Number theory <u>Dec</u> Graph Theory, Planarity Algorithm Kruskals, Prims
1/7	2020 summer assignment 8 set	2020 summer assignment 7 due	<u>Core Green Book 2</u> Methods in Calculus P62-69 Differentiating and integrating inverse trig	Consolidation  <u>Dec</u> Dijkstra, Floyds
8/7	2020 summer assignment 9 set	2020 summer assignment 8 due	Consolidation Mixed exercises	<u>FP1 Blue Book</u> Conics 1 P32-44 Parametric Equations Parabolas Rectangular hyperbolas
15/7	CWC set	2020 summer assignment 9 due	<u>Core Green Book 2</u> Integrating Partial fractions P69-74	<u>FP1 Blue Book</u> Conics 1 P45-60 Tangents and normal Loci P55-56

## Second year doubles Planner

			Core	FP1/FM1	FP1/FP2	FP1/D1	
7/09?	Starts 9/9?		Consolidation	Consolidation	Consolidation	Consolidation	
14/09			<b>Test</b> Hyperbolics	<b>Test</b> <u>FP1</u> Conics	<b>Test</b> <u>FP1</u> Conics	<b>Test</b> <u>FP1</u> Conics	
21/9		Ass 1 due	Hyperbolics Volume of revolution	<u>Core</u> Vector consolidation	<u>Core</u> Vector consolidation	<u>Core</u> Vector consolidation	Ass 1 due
28/09		Ass 2 due	Consolidation	<u>FP1</u> Inequalities The t formula	<u>FP1</u> Inequalities The t formula	<u>FP1</u> Inequalities The t formula	Ass 2 due
5/10		Ass 3 due	Differential equations First order	<u>FM1</u> Work Energy Power	<u>FP2</u> Group Theory	<u>Dec</u> Algorithms – sorting and bin packing etc  Graph Theory Kruskals, Prims, Dijkstra, Floyds	Ass 3 due
12/10		Ass 4 due	Differential equations second order	<u>FP1</u> weirestrass substitution	<u>FP2</u> Group theory	<u>FP1</u> weirestrass substitution	Ass 4 due
19/10		Ass 5 due	Complex 2 Exp form De Moivres Trig identities	<b>Test</b> <u>FM1</u> Elasticity	<b>Test</b> <u>FP1</u> iweirestrass substitution	<b>Test</b> <u>D1</u> Linear Programming	Ass 5 due
26/10	Half term						

2/11		Ass 6 due	<b>Test</b>	<u>FM1</u> Elasticity	<u>FP2</u> Integration techniques Reduction	<u>D1</u> Linear Programming	Ass 6 due
9/11	<b>Ass 7 due</b>						Ass 7 due
16/11		Ass 8 due	Complex 2 Sum of series Nth roots of a complex number Solving geometric problems	<u>FP1</u> <b>Conics 2</b>	<u>FP1</u> <b>Conics 2</b>	<u>FP1</u> <b>Conics 2</b>	Ass 8 due
23/11		Ass 9 due	Matrices 3x3 inverse, systems of equations Transformations using 3x3	<u>FP1</u> <b>Conics 2</b> <b>Taylor series</b>	<u>FP1</u> <b>Conics 2</b>  <b>Taylor series</b>	<u>FP1</u> <b>Conics 2</b> <b>Taylor series</b>	Ass 9 due
30/11		Ass 10 due	Modelling with differential equations	<u>FM1</u> Impulse and Momentum 1D collisions	<u>FP2</u> Integration techniques Arc length Area of a surface of revolution	<u>D1</u> Critical path analysis	Ass 10 due
07/12	<b>Test Hall</b>	Ass 11 due	<b>Test Hall</b> Modelling with differential equations	<u>FM1</u> Impulse and Momentum 1D collisions	<u>FP2</u> Complex numbers Loci and regions in an argand diagram Transformation of the complex plane	<u>D1</u> Critical path analysis	Ass 11 due
14/2	Finish 19/12	Ass 12 due	Consolidation	Consolidation	<u>FP2</u> Matrix algebra Eigenvalues, eigenvectors Diagonalising Cayley Hamilton Theorem	<u>D1</u> Route inspections	Ass 12 due
<b>Christmas</b>							

4/1		Ass 13 due	Induction: Series and divisibility Induction: Matrices	<b>Test</b>	<b>Test</b> <u>FP2</u> Matrix algebra Eigenvalues, eigenvectors Diagonalising Cayley Hamilton Theorem	<b>Test</b>	Ass 13 due
11/11		Ass 14 due	Polar	<b><u>FP1</u></b> <b>Vectors</b>	<b><u>FP1</u></b> <b>Vectors</b>	<b><u>FP1</u></b> <b>Vectors</b>	Ass 14 due
18/1		Ass 15 due	Polar	<b><u>FP1</u></b> <b>Vectors</b>	<b><u>FP1</u></b> <b>Vectors</b>	<b><u>FP1</u></b> <b>Vectors</b>	Ass 15 due
25/1		Ass 16 due	Improper integrals Mean value theorem	<b><u>FP1</u></b> <b>Differential equations using substitution</b>	<b><u>FP1</u></b> <b>Differential equations using substitution</b>	<b><u>FP1</u></b> <b>Differential equations using substitution</b>	Ass 16 due
01/2		Ass 17 due	Roots of polynomials	<b><u>FP1</u></b> <b>Differential equations using substitution</b>	<b><u>FP1</u></b> <b>Differential equations using substitution</b>	<b><u>FP1</u></b> <b>Differential equations using substitution</b>	Ass 17 due
8/2	Mock Week	Ass 18 due	<b>Mock</b>	<b>Test</b>	<b>Test</b>	<b>Test</b>	Ass 18 due
<b>15/2</b>	<b>Half Term</b>						
22/2		Ass 19 due		<u>FM1</u> Collisions 2d	<u>FP2</u> Recurrence relations	<u>D1</u> Simplex	Ass 19 due
1/3		Ass 20 due		<u>FM1</u> Collisions 2d	<u>FP2</u> Recurrence relations	<u>D1</u> Route Inspection Travelling salesman	Ass 20 due
8/3	M/FP2 Mock (hall)	Ass 21 due		<u>FP1</u> Simpsons rule Numerical methods for ODES	<u>FP1</u> Simpsons rule Numerical methods for ODES	<u>FP1</u> Simpsons rule Numerical methods for ODES	Ass 21 due
15/3	Starts 18/3	Ass 22 due		<u>FP1</u> L'hospital and Leibnitz	<u>FP1</u> L'hospital and Leibnitz	<u>FP1</u> L'hospital and Leibnitz	Ass 22 due

22/3		Ass 23 due		FP1 Mock	FP1 Mock	FP1 Mock	Ass 23 due
29/3	No Friday	Ass 24 due					Ass 24 due
Easter							
19/4		Rev ass 1 due					Rev ass 1 due
26/4		Rev ass 2 due					Rev ass 2 due
3/5	No Monday	Rev ass 3 due					Rev ass 3 due
13/5		Study leave					Study leave