

St. John's Senior School



Subject: Core Maths
Teacher: Andrew Chen

Form: U6th
Term: Autumn 2023

WEEK	WEEK BEGINNING	TOPIC
1	4 th September	Complex Numbers
2	11 th September	Complex Numbers
3	18 th September	Roots of Polynomials Series
4	25 th September	Series Mathematical Induction
5	2 nd October	MINI-TEST Hyperbolic Functions
6	9 th October	Volumes of Revolution Methods in Calculus
7	16 th October	Matrices Linear Transformation
HALF - TERM		
8	30 th October	Polar Coordinates
9	6 th November	Vectors
10	13 th November	First-order Differential Equations
11	20 th November	Second-order Differential Equations
12	27 th November	Modelling with Differential Equations
13	4 th December	

St. John's Senior School



Subject: Further Statistics and Mechanics
Teacher: Andrew Chen

Form: U6th
Term: Spring 2024

WEEK	WEEK BEGINNING	TOPIC
1	3 rd January (Wednesday)	MOCK EXAMINATIONS
2	8 th January	MOCK EXAMINATIONS
3	15 th January	Discrete random variables Poisson Distribution
4	22 nd January	Geometric Distribution Negative Binomial Distribution Hypothesis Testing
5	29 th January	Central limit theorem Chi-squared Tests
6	5 th February	Probability Generating Functions
HALF - TERM		
7	19 th February	Quality of Tests
8	26 th February	Work, Energy and Power Elastic strings and springs
9	4 th March	Momentum and Impulse Collision in 1D
10	11 th March	Collision in 2D
11	18 th March	Collision in 2D

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Subject: Further Mathematics
Teacher: Andrew Chen

Form: U6th
Term: Summer 2024

WEEK	WEEK BEGINNING	TOPIC
1	16 th April (Tuesday)	Revision and practice sections
2	22 nd April	Revision and practice sections
3	29 th April	Mock exams
4	7 th May	Study Leave
5	13 th May	Study Leave
6	20 th May	Study Leave
HALF - TERM		
7	3 rd June	External Exams
8	10 th June	External Exams
9	17 th June	External Exams
10	24 th June	External Exams
11	1 st July	