

St. John's Senior School



Subject: Core Maths
Teacher: Andrew Chen

Form: U6th
Term: Autumn 2024

WEEK	WEEK BEGINNING	TOPIC
1	3 rd September (Tuesday)	Complex Numbers
2	9 th September	Complex Numbers
3	16 th September	Roots of Polynomials Series
4	23 rd September	Series Mathematical Induction
5	30 th September	Hyperbolic Functions
6	7 th October	MINI TEST
7	14 th October	Volumes of Revolution Methods in Calculus
8	21 st October	Matrices Linear Transformation
HALF - TERM		
9	4 th November	Polar Coordinates
10	11 th November	Vectors
11	18 th November	First-order Differential Equations
12	25 th November	Second-order Differential Equations
13	2 nd December	Modelling with Differential Equations



Subject: Further Statistics and Mechanics
Teacher: Andrew Chen

Form: U6th
Term: Spring 2025

WEEK	WEEK BEGINNING	TOPIC
1	6 th January	MOCK EXAMINATIONS (5th and 6th Forms)
2	13 th January	MOCK EXAMINATIONS (5th Forms)
3	20 th January	Discrete random variables Poisson Distribution
4	27 th January	Geometric Distribution Negative Binomial Distribution Hypothesis Testing
5	3 rd February	Central limit theorem Chi-squared Tests
6	10 th February	Probability Generating Functions
HALF - TERM		
7	24 th February	Quality of Tests
8	3 rd March	Work, Energy and Power Elastic strings and springs
9	10 th March	Work, Energy and Power Elastic strings and springs
10	17 th March	Momentum and Impulse Collision in 1D
11	24 th March	Collision in 2D
12	31 st March	Collision in 2D

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Subject: Further Mathematics
Teacher: Andrew Chen

Form: U6th
Term: Summer 2025

WEEK	WEEK BEGINNING	TOPIC
1	28 th April	Revision and practice sections
2	6 th May (Tuesday)	Revision and practice sections
3	12 th May	Mock exams
4	19 th May	Study Leave
HALF - TERM		
5	2 nd June	External Exams
6	9 th June	External Exams
7	16 th June	External Exams
8	23 rd June	External Exams
9	30 th June	
10	7 th July	