

St. John's Senior School



Subject: Physics
Teacher: T. Vrionides

Form: Upper 6
Term: Autumn 2025

WEEK	WEEK BEGINNING	TOPIC
1	8 th September	● Circular motion; 3.6.1.2 Simple harmonic motion
2	15 th September	● Simple harmonic systems; 3.6.1.4 Forced vibrations and resonance
3	22 nd September	● Thermal energy transfer
4	29 th September	● Ideal gases; Molecular kinetic theory model
5	6 th October	● MINI TEST
6	13 th October	● Newton's law; Gravitational field strength
7	20 th October	● Gravitational potential
HALF - TERM		
8	3 rd November	● Orbits of planets and satellites
9	10 th November	● Coulomb's law
10	17 th November	● Electric field strength; Electric potential
11	24 th November	● Capacitance; Parallel plate capacitor
12	1 st December	● Energy stored by a capacitor; Capacitor charge and discharge
13	8 th December	● Magnetic flux density; Moving charges in a magnetic field

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Term: Spring 2026

WEEK	WEEK BEGINNING	TOPIC
1	6 th January	● MOCK EXAMINATIONS
2	12 th January	● MOCK EXAMINATIONS
3	19 th January	● α , β and γ radiation;
4	26 th January	● Nuclear instability; Nuclear radius
5	2 nd February	● Mass and energy; Induced fission
6	9 th February	● Safety aspects; Concept of moment of inertia
HALF - TERM		
7	23 rd February	● Mass and energy; Induced fission
8	2 nd March	● Rotational kinetic energy; Rotational motion
9	9 th March	● Torque and angular acceleration; Angular momentum
10	16 th March	● Non-flow processes; The p–V diagram
11	23 rd March	● Engine cycles; Second Law and engines

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WEEK	WEEK BEGINNING	TOPIC
1	20 th April	● Revision and exam practice
2	27 th April	● Revision and exam practice
3	5 th May (Tuesday)	● Revision and exam practice
4	11 th May	● External examinations
5	18 th May	● External examinations
HALF - TERM		
6	1 st June	● External examinations
7	8 th June	● External examinations
8	15 th June	● External examinations
9	22 nd June	● External examinations
10	29 th June	● External examinations
11	6 th July	● External examinations completed