

St. John's Senior School



Subject: Physics
Teacher: T. Vrionides

Form: Upper 6
Term: Autumn 2025

WEEK	WEEK BEGINNING	TOPIC
1	8 th September	<ul style="list-style-type: none"> • Circular motion; 3.6.1.2 Simple harmonic motion
2	15 th September	<ul style="list-style-type: none"> • Simple harmonic systems; 3.6.1.4 Forced vibrations and resonance
3	22 nd September	<ul style="list-style-type: none"> • Thermal energy transfer
4	29 th September	<ul style="list-style-type: none"> • Ideal gases; Molecular kinetic theory model
5	6 th October	<ul style="list-style-type: none"> • MINI TEST
6	13 th October	<ul style="list-style-type: none"> • Newton's law; Gravitational field strength
7	20 th October	<ul style="list-style-type: none"> • Gravitational potential
HALF - TERM		
8	3 rd November	<ul style="list-style-type: none"> • Orbits of planets and satellites
9	10 th November	<ul style="list-style-type: none"> • Coulomb's law
10	17 th November	<ul style="list-style-type: none"> • Electric field strength; Electric potential
11	24 th November	<ul style="list-style-type: none"> • Capacitance; Parallel plate capacitor
12	1 st December	<ul style="list-style-type: none"> • Energy stored by a capacitor; Capacitor charge and discharge
13	8 th December	<ul style="list-style-type: none"> • Magnetic flux density; Moving charges in a magnetic field

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WEEK	WEEK BEGINNING	TOPIC
1	6 th January	<ul style="list-style-type: none"> • MOCK EXAMINATIONS
2	12 th January	<ul style="list-style-type: none"> • MOCK EXAMINATIONS
3	19 th January	<ul style="list-style-type: none"> • α, β and γ radiation;
4	26 th January	<ul style="list-style-type: none"> • Nuclear instability; Nuclear radius
5	2 nd February	<ul style="list-style-type: none"> • Mass and energy; Induced fission
6	9 th February	<ul style="list-style-type: none"> • Safety aspects; Concept of moment of inertia
HALF - TERM		
7	23 rd February	<ul style="list-style-type: none"> • Mass and energy; Induced fission
8	2 nd March	<ul style="list-style-type: none"> • Rotational kinetic energy; Rotational motion
9	9 th March	<ul style="list-style-type: none"> • Torque and angular acceleration; Angular momentum
10	16 th March	<ul style="list-style-type: none"> • Non-flow processes; The p–V diagram
11	23 rd March	<ul style="list-style-type: none"> • Engine cycles; Second Law and engines

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WEEK	WEEK BEGINNING	TOPIC
1	20 th April	<ul style="list-style-type: none"> Revision and exam practice
2	27 th April	<ul style="list-style-type: none"> Revision and exam practice
3	5 th May (Tuesday)	<ul style="list-style-type: none"> Revision and exam practice
4	11 th May	<ul style="list-style-type: none"> External examinations
5	18 th May	<ul style="list-style-type: none"> External examinations
HALF - TERM		
6	1 st June	<ul style="list-style-type: none"> External examinations
7	8 th June	<ul style="list-style-type: none"> External examinations
8	15 th June	<ul style="list-style-type: none"> External examinations
9	22 nd June	<ul style="list-style-type: none"> External examinations
10	29 th June	<ul style="list-style-type: none"> External examinations
11	6 th July	<ul style="list-style-type: none"> External examinations completed