

St. John's Senior School



Subject: Physics Year 2

Teacher: Mr Layegh , Mrs Guerreiro

Form: Upper 6th

Term: Autumn 2021

WEEK	WEEK BEGINNING	TOPIC
1	6 th September	Circular motion; 3.6.1.2 Simple harmonic motion
2	13 th September	Simple harmonic systems; 3.6.1.4 Forced vibrations and resonance
3	20 th September	Thermal energy transfer
4	27 th September	Ideal gases; Molecular kinetic theory model
5	4 th October	MINI TEST WEEK (1st- 6th)
6	11 th October	Newton's law; Gravitational field strength
7	18 th October	Gravitational potential
HALF - TERM		
8	1 st November	Orbits of planets and satellites
9	8 th November	Coulomb's law
10	15 th November	Electric field strength; Electric potential
11	22 nd November	Capacitance; Parallel plate capacitor
12	29 th November	Energy stored by a capacitor; Capacitor charge and discharge
13	6 th December	Magnetic flux density; Moving charges in a magnetic field

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WEEK	WEEK BEGINNING	TOPIC
1	3 rd January	MOCK EXAMS (5th – 6th)
2	10 th January	The operation of a transformer; Rutherford scattering
3	17 th January	α , β and γ radiation; Radioactive decay
4	24 th January	Nuclear instability; Nuclear radius
5	31 st January	Mass and energy; Induced fission
6	7 th February	Safety aspects; Concept of moment of inertia
HALF - TERM		
7	21 st February	Mass and energy; Induced fission
8	28 th February	Rotational kinetic energy; Rotational motion
9	7 th March	Torque and angular acceleration; Angular momentum
10	14 th March	Non-flow processes; The p–V diagram
11	21 st March	Engine cycles; Second Law and engines
12	28 th March	Consolidation

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WEEK	WEEK BEGINNING	TOPIC
1	25 th April	Revision and exam practice
2	2 nd May	Revision and exam practice
3	9 th May	Revision and exam practice
4	16 th May	EXAMINATIONS
5	23 rd May	EXAMINATIONS
HALF - TERM		
6	6 th June	EXAMINATIONS
7	13 th June	EXAMINATIONS
8	20 th June	EXAMINATIONS
9	27 th June	EXAMINATIONS
10	4 th July	EXAMINATIONS