

St. John's Senior School



Subject: Physics Year 2
Teacher: Mr Layegh

Form: Upper 6th
Term: Autumn 2019

WEEK	WEEK BEGINNING	TOPIC
1	2 nd September	3.6.1.1 Circular motion; 3.6.1.2 Simple harmonic motion
2	9 th September	3.6.1.3 Simple harmonic systems; 3.6.1.4 Forced vibrations and resonance
3	16 th September	3.6.2.1 Thermal energy transfer
4	23 rd September	3.6.2.2 Ideal gases; 3.6.2.3 Molecular kinetic theory model
5	30 th September	3.7.2.1 Newton's law; 3.7.2.2 Gravitational field strength
6	7 th October	MINI TEST WEEK (1st- 6th)
7	14 th October	3.7.2.3 Gravitational potential
HALF - TERM		
8	28 th October	3.7.2.4 Orbits of planets and satellites
9	4 th November	3.7.3.1 Coulomb's law
10	11 th November	3.7.3.2 Electric field strength; 3.7.3.3 Electric potential
11	18 th November	3.7.4.1 Capacitance; 3.7.4.2 Parallel plate capacitor
12	25 th November	3.7.4.3 Energy stored by a capacitor; 3.7.4.4 Capacitor charge and discharge
13	2 nd December	3.7.5.1 Magnetic flux density; 3.7.5.2 Moving charges in a magnetic field
14	9 th December	3.7.5.4 Electromagnetic induction; 3.7.5.5 Alternating currents

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WEEK	WEEK BEGINNING	TOPIC
1	6 th January	MOCK EXAMS (5th – 6th)
2	13 th January	3.7.5.6 The operation of a transformer; 3.8.1.1 Rutherford scattering
3	20 th January	3.8.1.2 α , β and γ radiation; 3.8.1.3 Radioactive decay
4	27 th January	3.8.1.4 Nuclear instability; 3.8.1.5 Nuclear radius
5	3 rd February	3.8.1.6 Mass and energy; 3.8.1.7 Induced fission
6	10 th February	3.8.1.8 Safety aspects; 3.11.1.1 Concept of moment of inertia
HALF - TERM		
7	24 th February	3.8.1.6 Mass and energy; 3.8.1.7 Induced fission
8	2 nd March	3.11.1.2 Rotational kinetic energy; 3.11.1.3 Rotational motion
9	9 th March	3.11.1.4 Torque and angular acceleration; 3.11.1.5 Angular momentum
10	16 th March	3.11.2.2 Non-flow processes; 3.11.2.3 The p–V diagram
11	23 rd March	3.11.2.4 Engine cycles; 3.11.2.5 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	4 th May	Revision and exam practice
4	11 th May	EXAMINATIONS
5	18 th May	EXAMINATIONS
HALF - TERM		
6	1 st June	EXAMINATIONS
7	8 th June	EXAMINATIONS
8	15 th June	EXAMINATIONS
9	22 nd June	EXAMINATIONS
10	29 th June	EXAMINATIONS
11	6 th July	EXAMINATIONS