

St. John's Senior School



Subject: Physics Year 2
Teacher: Mr Layegh , Mrs Guerreiro

Form: Upper 6th
Term: Autumn 2020

WEEK	WEEK BEGINNING	TOPIC
1	7 th September	3.6.1.1 Circular motion; 3.6.1.2 Simple harmonic motion
2	14 th September	3.6.1.3 Simple harmonic systems; 3.6.1.4 Forced vibrations and resonance
3	21 st September	3.6.2.1 Thermal energy transfer
4	28 th September	3.6.2.2 Ideal gases; 3.6.2.3 Molecular kinetic theory model
5	5 th October	3.7.2.1 Newton's law; 3.7.2.2 Gravitational field strength
6	12 th October	MINI TEST WEEK (1st- 6th)
7	19 th October	3.7.2.3 Gravitational potential
HALF - TERM		
8	2 nd November	3.7.2.4 Orbits of planets and satellites
9	9 th November	3.7.3.1 Coulomb's law
10	16 th November	3.7.3.2 Electric field strength; 3.7.3.3 Electric potential
11	23 rd November	3.7.4.1 Capacitance; 3.7.4.2 Parallel plate capacitor
12	30 th November	3.7.4.3 Energy stored by a capacitor; 3.7.4.4 Capacitor charge and discharge
13	7 th December	3.7.5.1 Magnetic flux density; 3.7.5.2 Moving charges in a magnetic field
14	14 th December	3.7.5.4 Electromagnetic induction; 3.7.5.5 Alternating currents

St. John's Senior School



Subject: Physics Year 2

Form: Upper 6th

Teacher: Mr Layegh , Mrs Guerreiro

Term: Spring 2021

WEEK	WEEK BEGINNING	TOPIC
1	4 th January	MOCK EXAMS (5th – 6th)
2	11 th January	3.7.5.6 The operation of a transformer; 3.8.1.1 Rutherford scattering
3	18 th January	3.8.1.2 α , β and γ radiation; 3.8.1.3 Radioactive decay
4	25 th January	3.8.1.4 Nuclear instability; 3.8.1.5 Nuclear radius
5	1 st February	3.8.1.6 Mass and energy; 3.8.1.7 Induced fission
6	8 th February	3.8.1.8 Safety aspects; 3.11.1.1 Concept of moment of inertia
HALF - TERM		
7	22 nd February	3.8.1.6 Mass and energy; 3.8.1.7 Induced fission
8	1 st March	3.11.1.2 Rotational kinetic energy; 3.11.1.3 Rotational motion
9	8 th March	3.11.1.4 Torque and angular acceleration; 3.11.1.5 Angular momentum
10	15 th March	3.11.2.2 Non-flow processes; 3.11.2.3 The p–V diagram
11	22 nd March	3.11.2.4 Engine cycles; 3.11.2.5 Second Law and engines

St. John's Senior School



Subject: Physics Year 2

Teacher: Mr Layegh , Mrs Guerreiro

Form: Upper 6th

Term: Summer 2021

WEEK	WEEK BEGINNING	TOPIC
1	19 th April	Revision and exam practice
2	26 th April	Revision and exam practice
3	3 rd May	Revision and exam practice
4	10 th May	EXAMINATIONS
5	17 th May	EXAMINATIONS
HALF - TERM		
6	31 st May	EXAMINATIONS
7	7 th June	EXAMINATIONS
8	14 th June	EXAMINATIONS
9	21 st June	EXAMINATIONS
10	28 th June	EXAMINATIONS
11	5 th July	EXAMINATIONS