

# St. John's Senior School



**Subject: Physics**  
**Teacher: Mr K Layegh**

**Form: Lower 6th**  
**Term: Autumn 2023**

WEEK	WEEK BEGINNING	TOPIC
1	4 <sup>th</sup> September	3.1.1 Use of SI units and their prefixes
2	11 <sup>th</sup> September	3.1.2 Limitation of physical measurements
3	18 <sup>th</sup> September	3.1.3 Estimation of physical quantities
4	25 <sup>th</sup> September	3.2.1.1 Constituents of the atom
5	2 <sup>nd</sup> October	<b>MINI-TEST</b>
6	9 <sup>th</sup> October	3.2.1.2 Stable and unstable nuclei
7	16 <sup>th</sup> October	3.2.1.3 Particles, antiparticles and photons
<b>HALF - TERM</b>		
8	30 <sup>th</sup> October	3.2.1.4 Particle interactions
9	6 <sup>th</sup> November	3.2.1.5 Classification of particles
10	13 <sup>th</sup> November	3.2.1.6 Quarks and antiquarks
11	20 <sup>th</sup> November	3.2.1.7 Applications of conservation laws
12	27 <sup>th</sup> November	3.2.2.1 The photoelectric effect
13	4 <sup>th</sup> December	3.2.2.2 Collisions of electrons with atoms

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<b>WEEK</b>	<b>WEEK BEGINNING</b>	<b>TOPIC</b>
1	3 <sup>rd</sup> January (Wednesday)	<b>MOCK EXAMINATIONS</b>
2	8 <sup>th</sup> January	<b>MOCK EXAMINATIONS</b>
3	15 <sup>th</sup> January	3.2.2.3 Energy levels and photon emission
4	22 <sup>nd</sup> January	3.2.2.4 Wave-particle duality
5	29 <sup>th</sup> January	3.3.1.1 Progressive waves
6	5 <sup>th</sup> February	3.3.1.2 Longitudinal and transverse waves
<b>HALF - TERM</b>		
7	19 <sup>th</sup> February	3.3.1.3 Principle of superposition of waves and formation of stationary waves
8	26 <sup>th</sup> February	3.3.2.1 Interference
9	4 <sup>th</sup> March	3.3.2.2 Diffraction
10	11 <sup>th</sup> March	3.3.2.3 Refraction at a plane surface
11	18 <sup>th</sup> March	3.4.1.1 Scalars and vectors

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<b>WEEK</b>	<b>WEEK BEGINNING</b>	<b>TOPIC</b>
1	16 <sup>th</sup> April (Tuesday)	3.4.1.2 Moments
2	22 <sup>nd</sup> April	3.4.1.2 Moments
3	29 <sup>th</sup> April	3.4.1.4 Projectile motion
4	7 <sup>th</sup> May	3.4.1.5 Newton's laws of motion
5	13 <sup>th</sup> May	3.4.1.6 Momentum
6	20 <sup>th</sup> May	3.4.1.7 Work, energy and power
<b>HALF - TERM</b>		
7	3 <sup>rd</sup> June	<b>LOWER 6<sup>th</sup> END OF TERM EXAMINATIONS</b>
8	10 <sup>th</sup> June	3.5.1.1 Basics of electricity; Current-voltage characteristics
9	17 <sup>th</sup> June	3.5.1.4 Circuits
10	24 <sup>th</sup> June	3.5.1.5 Potential divider
11	1 <sup>st</sup> July	3.5.1.6 Electromotive force and internal resistance