Physics KS5 Overview 2021-2022

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year	Mechanics:	Mechanics:	Paper 1	<u>Materials:</u>	Waves:	Paper 2
	- Velocity and	- Core	<u>centre</u>	- Hooke's law	- Total	<u>Centre</u>
12	acceleration	Practical 1	<u>assessment.</u>	- Young's	internal	<u>assessments.</u>
	- Forces	- Energy, work		modulus	reflection	
	- Moments	and Power	<u>Materials:</u>	-	- Lenses	<u>Further</u>
	- Motion	- Momentum	- Fluids	Stress-Strain	- Polarisation	<u>Mechanics:</u>
	<u>Electric</u>	<u>Electric</u>	- Stokes' law	graphs	-	- Collisions
	<u>circuits:</u>	<u>circuits:</u>	- Core	- Core	Wave-Particle	- Core
	- Current	- Series and	Practical 4	Practical 5	duality	Practical 9
	- Energy	Parallel	<u>Waves:</u>	<u>Waves:</u>	- Photoelectric	<u>Electric and</u>
	transfer	- Potential	- Wave basics	- Diffraction	effect	<u>Magnetic</u>
	- Resistivity	dividers	- Core	- Interference	- Electron	<u>Fields:</u>
	- Core	- Internal	Practical 6	- Core	diffraction	- Electric
	Practical 2	resistance	- Phase	Practical 8	- Atomic	Fields
		Core Practical	-	- Refraction	electron	- Radial fields
		3	Superposition	BPhO Senior	energies	- Coulomb's law
		- Power	- Standing	Physics	-	<u>BPhO</u>
			waves	challenge		<u>Experimental</u>
			- Core	_		Project
			Practical 7			-
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year	<u>Further</u>	Electric and	<u>Paper 1</u>	<u>Gravitational</u>	<u>Paper 2</u>	<u>Course end</u>
	<u>Mechanics:</u>	<u>Magnetic</u>	<u>centre</u>	<u>fields:</u>	<u>Centre</u>	
13	- Core	<u>Fields:</u>	<u>assessment.</u>	- Fields and	<u>assessments.</u>	
	Practical 10	- Magnetic		forces		
	- Centripetal	fields	<u>Thermodynami</u>	- Newton's law	<u>Paper 3</u>	
	force	- Electric	<u>cs:</u>	of universal	<u>Centre</u>	
	<u>Electric and</u>	motors	- Core	gravitation.	<u>assessments.</u>	
	<u>Magnetic</u>	- Generators	Practical 12	<u>Space:</u>		
	<u>Fields:</u>	- Alternating	- Internal	- Black-body		
	- Electric	current.	energy	radiation		
	fields	<u>Nuclear &</u>	- Heat	- Stellar		
	- Capacitors	<u>Particle</u>	transfer	classification		
			Cana	- Distances to		
	- Core	Physics:	- Core	- Distunces to		
	- Core Practical 11	<u>Physics:</u> - Accelerators	- core Practical 13	the stars		

- Particle	- Core	- Hubble	
interactions	Practical 14	constant	
- Standard	- Kinetic	<u>Oscillations:</u>	
model	theory	- SHM	
- Particle	Nuclear	- Core	
reactions	Radiation:	Practical 16	
	- Radioactive	- Energy,	
	decay	Resonance and	
	- Fission &	damping	
	Fusion	, ,	
	- Power		
	Stations		
	- Core		
	Practical 15		