Sai Kung Sung Tsun Catholic School (Secondary Section) S5 Physics Teaching Schedule and Evaluation (2020-2021)

	Topic	List of Experiments	Teaching Period
Way	ve Motion	·	
13.	Wave Motion	Transverse waves	0.5
		Longitudinal waves	
14.	Reflection,	Straight and circular waves	1.5
	Refraction and	Laws of reflection	
	Diffraction	Refraction of water waves	
		Diffraction of water waves	
15.	Interference and	Superposition of pulses	2
	Stationary Waves	Transverse stationary waves	
		Particle motion in a stationary wave	
		Interference of water waves	
16.	Light and Sound	Double slit experiment	2
		Plane diffraction grating	
17.	Reflection of Light	Laws of reflection	2
		Plane-mirror image	
18.	Refraction of Light	Refraction phenomena	2
		The laws of refraction	
		Total internal reflection	
		Prisms	
19.	Lenses	Convex and concave lenses	3
		Convex lens images	
		Concave lens images	
		Measuring focal length	
		Lens formula and graphs	
Elec	ctricity and Magnetism	1	
20.	Electrostatics	Bending a stream of water	3
		Charging a metal tray	
		Gold-leaf electroscope	
21.	Circuit and Power	Finding the I-V characteristic curve	3
		Effects of length and thickness on the	
		resistance of a wire	
		Effect of temperature on resistance	
		Determine the electrical power of a	

		bulb		
		Heating effect of electric current		
22.	AC and Domestic	Effective value of a sinusoidal	2	
	Electricity	voltage		
23.	Electromagnetism	Visualizing magnetic field patterns	3	
		Magnetic field pattern s around		
		different current-carrying conductors		
		Current balance		
24.	Electromagnetic	Electromagnetic Induction	3	
	Induction	Changing magnetic field		
		Induced e.m.f. of a simple generator		
Radioactivity and Nuclear Energy				
25.	Radiation and	Range of α radiation in air	3	
	Radioactivity	Penetrating power of nuclear		
		radiations		
26.	Rate of Decay and		3	
	Uses of			
	Radionuclides			
27.	Nuclear Energy		3	

Evaluation:

Result (100%) = Examination (50%) + Course Work (50%)

Term Result (100%) = First Term result (50%) + Second Term result (50%)

* Course Work (100%) = Test result (50%) + Online test result (10%) Homework and Laboratory Report (30%) + Electronic homework (10%)