

Spec Ref	Topic	TAP episode	comments
2.3	Waves and wave properties	310	First half
	Electromagnetic spectrum and its applications	314	
	$v = f \lambda$	311	
	Sound waves and the loudspeaker	311-3	
	Transverse and longitudinal waves, including standing waves	309	
	Superposition, coherence, phase difference and path difference	320, 311-7 310	Superposition Second half
	Standing(stationary) wave, nodes and antinodes	324	
	Refractive index $\mu_2 = \sin i / \sin r = v_1 / v_2$,	317	
	Total internal reflection and critical angle	318	
	Plane polarised light	313	
	Diffraction	323	
	Wave nature of electrons	506 -1 506-2	
	Transmission and reflection at an interface	317-4 318	
	Doppler effect for sound and applications	702 702-1	
	Resolution of a scan		
2.4	Electric current as the rate of flow of charged particles	101, 102	
	$V = W/Q$	105	
	I,V and R for series and parallel circuits,	114	
	$P = VI, W = VIt$	115	
	V-I graphs, including non-ohmic materials, filament lamp, diode and thermistor	108-3	No sample graphs available
	$R = \rho l/A$	112	
	The potential divider	118	
	emf and internal resistance	120, 121	
	$I = nqvA$	104	
	Changes of resistance in terms of lattice vibrations and number of electrons	110	