



Curriculum Overview for Physics Year 11

Half Term 1: waves	Skim and Scan of source information
	Decoding terms
Substantive Knowledge:	Etymology of key terms
Define the two types of wave and describe them using	
key terms.	
Describe the difference between specular and diffuse reflection.	Transverse waves, longitudinal waves,
Describe and explain refraction.	compression, rarefaction, amplitude, wavelength
Explain what happens to sound waves.	frequency, period, hertz, medium, apparatus,
Describe how to measure the speed of waves in a liquids	Reflection (Triple), transmission (Triple),
Describe how to measure the speed of waves in a solid	absorption (Triple), refraction
Identify and describe waves on the EM Spectrum	
	Recall questions to start every lesson
Disciplinary Knowledge:	Recall test
Select appropriate methods for measuring the	Review sheet
speed of a wave	End of unit assessment
Discuss the uses and dangers of EM waves.	
	Revision Card preparation for every
	lesson
	Recall test
	Review sheet
	Repetition of use of revision cards for
	end of unit assessment
Half Term 2: Waves	Decoding of key terminology
I Samuel Telini Evitation	Skim reading
Substantive Knowledge:	Etymology of key terms
Explain how waves on the Electromagnetic Spectrum	
can be used	
explain the dangers of Electromagnetic waves.	
 Explain how images can be made using waves (T). 	sound waves, ultrasound waves (Triple/HT),
Draw ray diagrams for both convex and concave lenses	seismic waves, P-waves (Triple/HT), S-waves (Triple/HT), Echo sounding (Triple/HT),
(T).Describe the images formed by lenses and explain how	(Thiple/TT), Ectio sounding (Thiple/TT),
they are formed (T).	
Disciplinary Knowledge:	Do call toote
Draw a ray diagrams for reflection, refraction and	Recall tests Review sheet
lenses (T)	■ ✓ End of unit test
<u> </u>	Review sheet
	Memorising revisions cards and preparing revision cards for every lesson