









Curriculum Overview for Physics Year 11

<p>Half Term 1: waves</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> Define the two types of wave and describe them using key terms. Describe the difference between specular and diffuse reflection. Describe and explain refraction. Explain what happens to sound waves. Describe how to measure the speed of waves in a liquids Describe how to measure the speed of waves in a solid Identify and describe waves on the EM Spectrum <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Select appropriate methods for measuring the speed of a wave Discuss the uses and dangers of EM waves. 		<p>Skim and Scan of source information Decoding terms Etymology of key terms</p>
		<p>Transverse waves, longitudinal waves, compression, rarefaction, amplitude, wavelength, frequency, period, hertz, medium, apparatus, Reflection (Triple), transmission (Triple), absorption (Triple), refraction</p>
		<p>Recall questions to start every lesson Recall test Review sheet End of unit assessment</p>
		<p>Revision Card preparation for every lesson Recall test Review sheet Repetition of use of revision cards for end of unit assessment</p>
<p>Half Term 2: Waves</p> <p>Substantive Knowledge:</p> <ul style="list-style-type: none"> 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). Draw ray diagrams for both convex and concave lenses (T). Describe the images formed by lenses and explain how they are formed (T). <p>Disciplinary Knowledge:</p> <ul style="list-style-type: none"> Draw a ray diagrams for reflection, refraction and lenses (T) 		<p>Decoding of key terminology Skim reading Etymology of key terms</p>
		<p>sound waves, ultrasound waves (Triple/HT), seismic waves, P-waves (Triple/HT), S-waves (Triple/HT), Echo sounding (Triple/HT),</p>
		<p>Recall tests Review sheet End of unit test</p>
		<p>Review sheet Memorising revisions cards and preparing revision cards for every lesson</p>