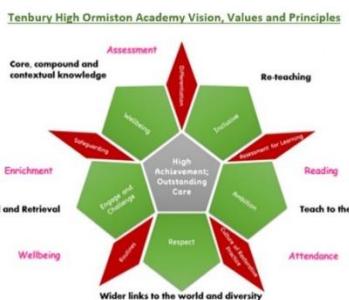


Curriculum Overview for Physics

Year 10

Half Term 3: BOE15 <p>Substantive Knowledge:</p> <p>Types of electromagnetic waves Properties of electromagnetic waves 2 Properties of electromagnetic waves 1 Use and application of EM waves Transverse and longitudinal waves Properties of waves</p> <p>Disciplinary knowledge</p> <p>Use of appropriate apparatus to make and record a range of measurements accurately, including length, area, mass, time, volume and temperature. Use of such measurements to determine densities of solid and liquid objects.</p> <p>Making observations of waves in fluids and solids to identify the suitability of apparatus to measure speed/frequency/wavelength. Making observations of the effects of the interaction of electromagnetic waves with matter.</p> <p>Make valid comments on the quality of data based on a given method (WS2g)</p> <p>Independently plan experiments to make observations, test hypotheses or explore phenomena (WS2b)</p> <p>Draw conclusions that are consistent with evidence they have collected and explain using scientific knowledge and understanding (WS3e)(WS3d)(WS3f)</p> <ul style="list-style-type: none"> • 	     	<p>Decoding of key terminology Skim reading Etymology of key terms</p> <p>Current, DC current, AC current, Voltage/ potential difference, Resistance, Component, Series, Parallel, Power, Live wire, Neutral wire, Earth wire, Fuse, Circuit breaker, Circuit diagram, Electric field, Static electricity, Point charge</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> <p>Decoding of key terminology Skim reading Etymology of key terms</p> <p>Current, DC current, AC current, Voltage/ potential difference, Resistance, Component, Series, Parallel, Power, Live wire, Neutral wire, Earth wire, Fuse, Circuit breaker, Circuit diagram, Electric field, Static electricity, Point charge</p>
Half Term 4: BOE15 <p>Substantive Knowledge:</p> <p>Types of electromagnetic waves Properties of electromagnetic waves 2 Properties of electromagnetic waves 1 Use and application of EM waves Transverse and longitudinal waves Properties of waves</p> <p>Disciplinary knowledge</p>		



<p>Use of appropriate apparatus to make and record a range of measurements accurately, including length, area, mass, time, volume and temperature. Use of such measurements to determine densities of solid and liquid objects.</p>		<p>Recall tests Review sheet End of unit test</p>
<p>Making observations of waves in fluids and solids to identify the suitability of apparatus to measure speed/frequency/wavelength. Making observations of the effects of the interaction of electromagnetic waves with matter.</p> <p>Make valid comments on the quality of data based on a given method (WS2g)</p> <p>Independently plan experiments to make observations, test hypotheses or explore phenomena (WS2b)</p> <p>Draw conclusions that are consistent with evidence they have collected and explain using scientific knowledge and understanding (WS3e)(WS3d)(WS3f)</p> <ul style="list-style-type: none"> • 		<p>Review sheet Memorising revisions cards and preparing revision cards for every lesson</p>