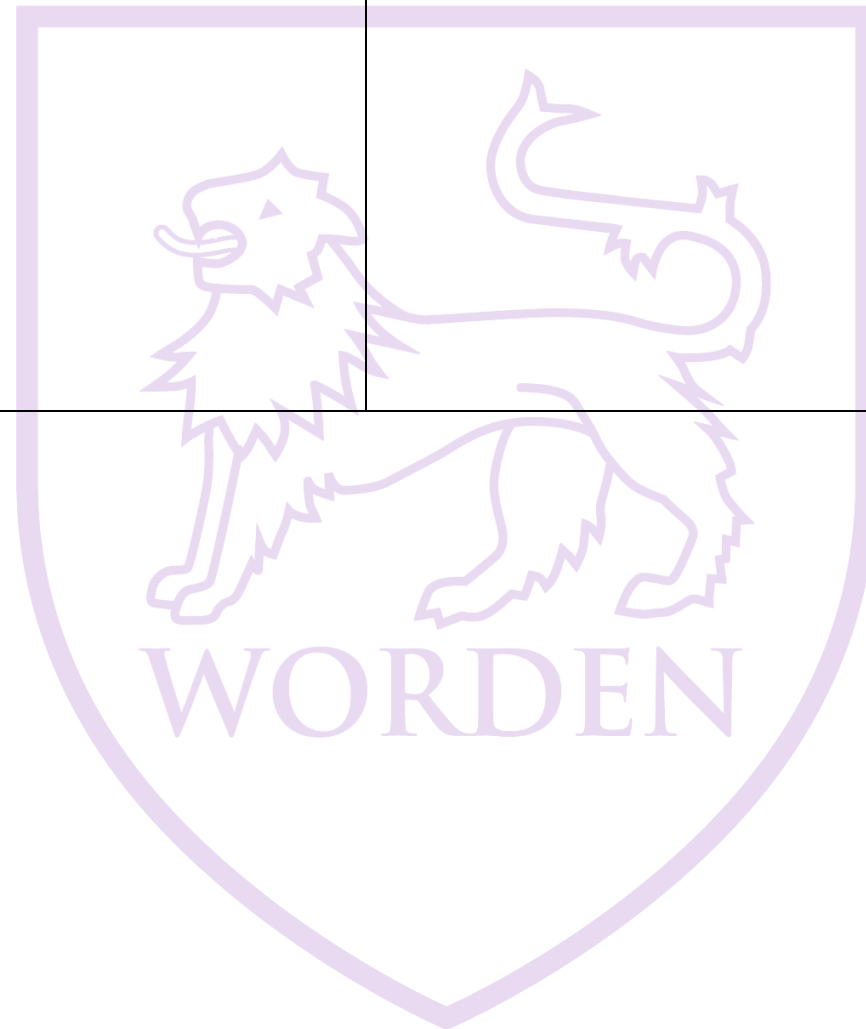


<b>Physics combined science and Separate physics (*bold is physics only)</b>			
<b>Year: 11</b>			
In Year 11, pupils have 2 lessons of physics a week. They follow this sequence of lessons			
Half term 1 & 2 Waves	Half term 2 & 3 Electromagnets	Half term 3 Space	
Reflection, refraction and wave fronts Describing waves Transverse and longitudinal waves Transferring energy and information by waves Measuring wave speed Required practical measuring wavelength, frequency and speed in a ripple tank Reflection and refraction of waves <b>Sound waves</b> <b>Exploring ultrasound</b> <b>Seismic waves</b> The electromagnetic spectrum Microwaves Gamma rays and X rays Ultraviolet and infrared radiation Required practical investigating infrared radiation	Magnetism and magnetic forces The magnetic effect of a solenoid Electromagnets in action Calculating the force on a conductor Electric motors <b>Loud speakers</b> <b>The generator effect</b> <b>Using the generator effect</b> <b>Transformers</b>	<b>The solar system</b> <b>Orbits of planets, moons and artificial satellites</b> <b>The sun and other stars</b> <b>Main sequence of a star</b> <b>Life cycles of stars</b> <b>How the elements are formed</b> <b>Red shift</b> <b>Gravity the force that binds the universe</b>	

*Ludus Admirandus*

Microwaves  
Radio and microwave  
communication  
**Colour**  
**Lenses**  
**Images and  
magnification**  
**Emission and  
absorption of infrared  
radiation**  
**Temperature of the  
earth**



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