

Subject Name: Physics



Year 12	Subject Theme	Wider Reading/Independence
Autumn	<b>Mechanics and Materials</b> Forces and the Laws of motion Kinematics and Projectiles Fluid movement Hooke's law and stress-strain graphs	<b>Edexcel:</b> <a href="https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/physics-2015.html">https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/physics-2015.html</a> <b>Feynman Lectures:</b> <a href="http://research.microsoft.com/apps/tools/tuva/index.html">http://research.microsoft.com/apps/tools/tuva/index.html</a> <b>Institute of Physics:</b> <a href="https://isaacphysics.org/">https://isaacphysics.org/</a>
Spring	<b>Electric Circuits</b> IV relationships and EMF Conduction and resistance <b>Basic Waves</b> Wave Superposition Diffraction	As above
Summer	<b>The Particle Nature of Light</b> Optics Polarisation Quantum Physics	As above

<b>Key dates</b>	PPEs held twice within the academic year
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Year 13	Subject Theme	Wider Reading/Independence
Autumn	<b>Electric and magnetic fields</b> Coulombs law Capacitors <b>Thermodynamics</b> Heat transfer Ideal gas behaviour	<b>Edexcel:</b> <a href="https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/physics-2015.html">https://qualifications.pearson.com/en/qualifications/edexcel-a-levels/physics-2015.html</a> <b>Feynman Lectures:</b> <a href="http://research.microsoft.com/apps/tools/tuva/index.html">http://research.microsoft.com/apps/tools/tuva/index.html</a> <b>Institute of Physics:</b> <a href="https://isaacphysics.org/">https://isaacphysics.org/</a>
Spring	<b>Nuclear radiation</b> Rate of decay Fission, fusion and power stations Fundamental particles <b>Gravitational Fields</b> Fields forces and interactions	As above
Summer	<b>Space</b> Stella classification The age of the universe <b>Oscillations</b> Simple harmonic motion Resonance and damping	As above

<b>Key dates</b>	PPEs held twice in addition to the final exam
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