

<h1>Year 11</h1> <p>Physics</p>			
1	<ul style="list-style-type: none"> SP8/9 Recall equations for work and power; describe force fields; represent forces in terms of free body diagrams; recall equation for moments. 	<ul style="list-style-type: none"> SP8/9 Calculate work and power; classify types of force and explain forces; resolve forces using scale diagrams; calculate moments in equilibrium. 	<ul style="list-style-type: none"> SP8/9 Calculate work and power; classify forces and explain force fields including diagrams; use vector diagrams to resolve forces; calculate moments and apply to gears and levers.
2	<ul style="list-style-type: none"> SP10/11 Recall, calculate and describe energy transferred, charge, p.d., electrical power and describe electricity flow in circuits, d.c. and a.c., and modern wiring. 	<ul style="list-style-type: none"> SP10/11 Recall, calculate and explain energy transferred, charge, p.d., electrical power and explain electricity flow in circuits, and the effect of resistance in a circuit, the difference between d.c. and a.c. and explain how domestic circuits operate. 	<ul style="list-style-type: none"> SP10/11 Recall, calculate, manipulate and explain energy transferred, charge, p.d., electrical power and explain electricity flow in circuits, and the effect of resistance in a circuit, the difference between d.c. and a.c. and explain how domestic circuits operate & how to reduce unwanted energy transfer.
3	<ul style="list-style-type: none"> SP12/13 Plot shape of magnetic field around a wire; explain role of transformers in the National Grid. 	<ul style="list-style-type: none"> SP12/13 Explain how current causes a magnetic field; apply Fleming's LH rule; explain role of transformers in the National Grid and use transformer equation. 	<ul style="list-style-type: none"> SP12/13 Explain how current causes a magnetic field and EM induction; apply Fleming's LH rule; explain role of transformers in the National Grid and use transformer equation.
4	<ul style="list-style-type: none"> SP14 Recall kinetic theory model; describe temperature changes during changes of state; recall Kelvin scale. 	<ul style="list-style-type: none"> SP14 Explain heating curve and calculate energy changes; explain absolute zero in terms of kinetic energy and use Kelvin scale. 	<ul style="list-style-type: none"> SP14 Explain heating curve; calculate energy in relation to specific heat capacity and latent heat; calculate energy.
5	<ul style="list-style-type: none"> SP15 Recall how pressure changes in air and water; describe force-extension graphs. 	<ul style="list-style-type: none"> SP15 Explain how pressure changes in air and water and link to upthrust; explain force-extension graphs. 	<ul style="list-style-type: none"> SP15 Explain pressure changes in air and water and calculate pressure and upthrust; explain force-extension graphs.