



PHYSICS: Curriculum Overview
Year 10

Term	Topic studied	What will I learn?	How will I be assessed?
Year 10 Autumn	Electrical Circuits	<i>Electrical charges and fields (static)</i> Current and charge Potential difference and resistance <ul style="list-style-type: none"> - Required practical Investigating resistance Component characteristics <ul style="list-style-type: none"> - Required practical Investigating electrical components Series circuits Parallel circuits	<i>End of topic test</i> <i>Mk</i>
	Electricity in the home	Alternating current Cables and plugs Electrical power and potential difference Electrical currents and energy transfer Appliances and efficiency	<i>End of topic test</i>
	Forces in balance	Vectors and scalars Forces between objects Resultant forces <i>Moments at work</i> <i>More about levers and gears</i> Centre of mass <i>Moments and equilibrium</i> The parallelogram of forces Resolution of forces	<i>End of topic test</i>
Year 10 Spring	Motion Force and motion	Speed and distance time graphs Velocity and acceleration More about velocity time graphs Analysing motion graphs Force and acceleration <ul style="list-style-type: none"> - Required practical Investigate the relationship between force and extension for a spring Weight and terminal velocity Forces and braking Momentum <i>Using conservation of momentum</i> <i>Impact forces</i> <i>Safety first</i> Forces and elasticity Required practical	<i>End of topic tests</i> Year 10 Exam Topics included <ul style="list-style-type: none"> - Energy and dissipation of energy (year 9) - Energy transfer by heating (year 9) - Energy resources (year 9) - Molecules and matter (year 9) - Radioactivity (year 9) - Electrical circuits (year 10) - Electricity in the home (year 10)

