

Calendar	Topic	Assessment	Sequencing and Coherence <i>concepts - themes - skills</i>	Literacy <i>reading - vocabulary - oracy - writing</i>
Autumn Half Term 1	P4 Electrical fields, Potential difference and resistance, Components, Series and parallel circuits.	P4 Online test set on Educake – instantly marked and direct question feedback through Educake. P4 End of topic test GCSE style questions FT and HT. P4, working scientifically and synoptic content from P1- P3. Teacher marked, feedback though model answer mark scheme and follow up exam style questions on areas of weakness – personalised.	The electricity topic builds on both the understanding of electrical energy from the KS4 Energy topic as well as prior knowledge and skills of the KS3 electricity topic. It is necessary to cover electricity in Yr10 as the remaining topics in Yr11 require knowledge of electricity. e.g P10 Electromagnetism requires prior knowledge of Electricity.	AQA circuits glossary used to define each key term used in this topic. Oracy task – describe how to draw circuit symbols to partner with a whiteboard – test of accuracy of communication. Extended writing
Autumn Half Term 2	P5 Electricity in the Home: Alternating current, Cables and plugs, Electrical power and potential difference, Electrical currents and energy transfer, Appliances and efficiency.	P5 Online test set on Educake – instantly marked and direct question feedback through Educake. P5 End of topic test GCSE style questions FT and HT. P5, working scientifically and synoptic content from P1- P4. Teacher marked, feedback though model answer mark scheme and follow up exam style questions on areas of weakness – personalised.	P5 builds upon the knowledge of electrical circuits covered in P4. It is necessary to cover this P5 topic following P4 as students are required to be describe links between charge, potential difference and current and carry out further calculations, which would not be possible without prior knowledge of these quantities.	P5 electricity in the home glossary given. Extended writing

<p>Spring</p> <p>Half</p> <p>Term 3</p>	<p>P6 Molecules and Matter: States of matter, Changes of state, Internal energy, Specific latent heat, Gas pressure and temperature.</p>	<p>P6 Online test set on Educake – instantly marked and direct question feedback through Educake.</p> <p>P6 End of topic test GCSE style questions FT and HT. P6, working scientifically and synoptic content from P1- P5.</p> <p>Teacher marked, feedback through model answer mark scheme and follow up exam style questions on areas of weakness – personalised.</p>	<p>The P6 Molecules and Matter topic builds on both the understanding of P1 energy from the KS4 Energy topic and prior knowledge and skills of the KS3 C1 Particles topic.</p> <p>Knowledge of the states of matter and the properties of these states is required to introduce kinetic theory and to understand the changes that occur as a material changes from one state to another.</p> <p>Additionally, this information is required to comprehend the concept of internal energy, analysing the behaviour of particles in solids, liquids and gases as the temperature changes.</p>	<p>Extended writing</p>
<p>Spring</p> <p>Half</p> <p>Term 4</p>	<p>P7 Radioactivity: Atoms and radiation, the discovery of the nucleus, changes in the nucleus, Alpha, beta and gamma radiation, Activity and half-life.</p>	<p>P7 Online test set on Educake – instantly marked and direct question feedback through Educake.</p> <p>P7 End of topic test GCSE style questions FT and HT. P5, working scientifically and synoptic content from P1- P6.</p> <p>Teacher marked, feedback through model answer mark scheme and follow up exam style questions on areas of weakness – personalised.</p>	<p>P7 Radioactivity builds on both the understanding of C1 Atomic Structure covered in Yr9, recapping the structure of the nucleus, developments in the understanding of sub atomic particles and changes to the model of the atom.</p>	<p>Oracy task – video shown of comparison of alpha, beta and gamma radiation and how they behave with different materials. Students have to give description of how the behaviour of each radiation source changes with different materials.</p> <p>Discussion surrounding controversial mining activities next to a Navajo tribe in North America.</p>

Summer Half Term 5	P8 Forces in balance: Vector and scalar, forces between objects,	P8 Online test set on Educake – instantly marked and direct question feedback through Educake.	It is necessary to cover forces in Yr 10 as the remaining topics in Yr11 require knowledge of forces. E.g. topic P9 requires students to recap the concept of speed and its relationship to distance travelled and the time taken.	Extended writing
Summer Half Term 6	P8 continued Resultant forces, Centre of mass, Parallelogram of forces, Resolution of forces.	P8 End of topic test GCSE style questions FT and HT. P8, working scientifically and synoptic content from P1-P7. Teacher marked, feedback through model answer mark scheme and follow up exam style questions on areas of weakness – personalised.		Extended writing