



Archbishop Beck Catholic College

KS5 Scheme of Work

Year 13 Physics



Lesson Sequencing	The High 5 lesson : to be used throughout year	HAP further learning opportunities
<p><b>Teacher A</b></p> <p><b>3.6 Further mechanics and thermal physics</b> 3.6.1 Periodic motion 3.6.2 Thermal physics</p> <p><b>3.7 Fields and their consequences</b> 3.7.1 Fields 3.7.2 Gravitational fields 3.7.3 Electric fields 3.7.4 Capacitance 3.7.5 Magnetic fields</p> <p><b>3.8 Nuclear physics</b> 3.8.1 Radioactivity</p> <p><b>Teacher B</b></p> <p><b>3.9 Astrophysics</b> 3.9.1 Telescopes 3.9.2 Classification of stars 3.9.3 Cosmology</p>	<p><b>Consolidation:</b> Tasks to support prior learning including past exam questions, focus on valiant vocabulary for topics already taught, mind maps, discussion tasks, assessment of exemplar answers to extended question.</p> <p><b>Modelling:</b> Focus on scaffolding extended questions AO1, AO2, and AO3 criteria. Scaffolding with the use of tables, exemplar answers and mark schemes. Teacher led to start with then in groups, pairs and individually with the use of notes to support independence as confidence increases.</p> <p><b>Response and Feedback:</b> Q &amp; A, oral feedback to whole class and individuals, improvement tasks, extension tasks, peer improvement tasks, detailed marking of written tasks, next step marking.</p> <p><b>Challenge:</b> use of relevant extension tasks, use of exam pro questions. Independent research of tasks. Challenge tasks set in response and feedback if appropriate.</p> <p><b>Independence:</b> Use of articles to extend knowledge, research homework tasks, lab work, editing notes in revision book notes. Self and peer assessment.</p>	<p><b>Extension</b> directed questioning, extended questions focus on all topics, use of authentic texts, increased use of extended vocabulary, and focus on key valiant vocabulary, challenge activities incorporated into response and feedback, peer support and self-assessment.</p> <p>Exam board web seminars accessed recorded and presented to students delivery by chief examiners.</p> <p>Careers week and employment opportunities, university visits to labs. University open days.</p> <p>University scholar's programme and social mobility programme. Exam booklets created to support independent learning.</p>