



St Richard Reynolds Catholic High School

<p>SUBJECT: Physics YEAR GROUP: 12</p> <p>TOPICS COVERED</p> <p>Physics: Measurements and their errors; Particles and radiation; Waves; Mechanics and materials; Electricity</p>	
<p style="text-align: center;">PROGRAMME OF STUDY</p>	<p style="text-align: center;">METHOD OF ASSESSMENT</p>
<p>Winter term</p> <p>Mechanics and materials</p> <ul style="list-style-type: none"> • Forces, energy and momentum • Materials <p>Particles and radiation</p> <ul style="list-style-type: none"> • Particles • Electromagnetic radiation and quantum phenomena 	<p>Practical assessments – required practicals</p> <p>End of topic test after each unit</p> <p>Weekly exam questions</p> <p>Mini assessments at mid-point</p>
<p>Spring Term</p> <p>Waves</p> <ul style="list-style-type: none"> • Progressive and stationary waves • Refraction, diffraction and interference 	<p>Practical assessments – required practicals</p> <p>End of topic test after each unit</p> <p>Weekly exam questions</p> <p>Mini assessments at mid-point</p>

<p>Summer Term</p> <p>Electricity</p> <ul style="list-style-type: none"> • Current electricity 	<p>Practical assessments – required practicals</p> <p>Weekly exam questions</p> <p>End of year exams</p>
<p>Throughout</p> <p>Measurements and their errors</p> <ul style="list-style-type: none"> • Use of SI units and their prefixes • Limitation of physical measurements • Estimation of Physical Quantities 	
<p>Key Skills:</p> <ul style="list-style-type: none"> ➤ Following written procedures ➤ Applying investigative approaches and methods when using instruments and equipment ➤ Safely using a range of practical equipment and materials ➤ Making and recording observations ➤ Researching and using references and reports ➤ Demonstrating knowledge and understanding of scientific ideas, processes, techniques and procedures ➤ Applying knowledge and understanding of scientific ideas, processes, techniques and procedures in a theoretical and practical context and when handling data ➤ Analysing, interpreting and evaluating scientific information, ideas and evidence to make judgements and reach conclusions and develop and refine practical design and procedures. 	