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| <b>Year 11:<br/>Combined<br/>Physics</b>      | <b>Curriculum Intent:</b> in year 11 combined science Physics, the aim is to consolidate students’ knowledge from year 7-10, with more focus on the application of this knowledge. Exam skills will be taught alongside recapping the knowledge the students have developed over the course.                                                                                                                        |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                |                                                                                                                                                                |                                         |  |
|                                               | <b>Autumn 1</b>                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Autumn 2</b>                                                                                                                                                                                                                      | <b>Spring 1</b>                                                                                                                                                                                                                                                                | <b>Spring 2</b>                                                                                                                                                | <b>Summer 1</b>                         |                                                                                     |
| <b>Key ideas and sequence<br/>of learning</b> | <p><b>P6 - Global Challenges</b></p> <ul style="list-style-type: none"><li>• Measuring motion</li><li>• stopping distance</li><li>• Forces in collisions</li><li>• energy sources and resources</li><li>• national grid</li><li>• mains electricity</li></ul> <p>The following modules will be revisited:</p> <p><b>P1 - Matter</b><br/><b>P2 - Motion and Forces</b><br/><b>P3 - Electricity and magnetism</b></p> | <p>The following topics will be revisited:</p> <p><b>P4 - Waves &amp; radioactivity</b><br/><b>P5 - Energy</b><br/><b>P6 - Global challenges</b></p> <p>Students prepare for their PPE exams</p> <p>Students sit their PPE exams</p> | <p>Students will review their PPE exam papers in detail to identify strengths and weaknesses</p> <p>Students will then prepare for their GCSE exams in lessons with their teacher.</p> <p>They will also have intervention sessions where they revise key practical skills</p> | <p>Revision and consolidation</p> <p>Students will then prepare for their GCSE exams in lessons with their teacher.</p> <p>Students begin their GCSE exams</p> | <p>Students finish their GCSE exams</p> |                                                                                     |
| <b>Key Questions</b>                          | <ul style="list-style-type: none"><li>• What factors affect how quickly a car stops?</li><li>• How does electricity get transmitted to our homes?</li><li>• What sources of energy do we use and how long will they last?</li></ul>                                                                                                                                                                                 | <p>Questions will be covered from years 7-10 topics</p>                                                                                                                                                                              |                                                                                                                                                                                                                                                                                |                                                                                                                                                                |                                         |                                                                                     |

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|                         | Questions will be covered from years 7-10 topics                                                                                                                                                                                     |                                                   |           |  |  |
| <b>Vocabulary</b>       | <ul style="list-style-type: none"> <li>• Thinking Distance</li> <li>• Braking Distance</li> <li>• Stopping Distance</li> <li>• Transformers</li> <li>• Renewable</li> </ul> <p>Vocabulary will be covered from years 7-10 topics</p> | Vocabulary will be covered from years 7-10 topics |           |  |  |
| <b>Practical Skills</b> | Wiring a plug                                                                                                                                                                                                                        | N/A                                               | See above |  |  |