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| **Year 10**  **Physics**  **2021-2022** | In year 10 you will learn key concepts in electricity and the characteristics of some components; how magnetic fields can be used to produce electrical current, how motors and transformers work. You will then go on to learn about electromagnetic and sound waves, how characteristics of waves can be measured, and how waves allow us to detect things we cannot see. This builds upon units on electricity and magnetism, and light and sound in KS3. |

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| **Topic P2 – ELECTRICITY** | | | | | | | |
| Weekly Homework Tasks |  |  |  | **Mid Topic assessment** |  |  |  |
| **Key Knowledge Content =** Current and potential difference  **Attitudes and Skills**  **TENSILE:** Numeracy,  **Numeracy =** Using formulae | | | Required Practical = Constructing circuits, I-V characteristics |  | Required Practical = Resistance |  | Required Practical = Reducing energy transfers |

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| 9 | 10 | 11 | 12 | 13 | 14 | 15 | **16** |
| **P2 Cont….** | | **Topic P7 – ELECTROMAGNETISM** | | | | | |
|  | **End of P2 Topic Test** | Weekly Homework Tasks |  |  | **Mid Topic assessment** |  |  |
|  |  | **Key Knowledge Content =** The link between electricity and magnetism  **Attitudes and Skills**  **TENSILE:** Numeracy  **Numeracy =**Rearranging equations | | |  |  |  |

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| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
|  | **Topic P6 – WAVES** | | | | | | National Science Week |
| **End of P7 Topic Test** | Weekly Homework tasks | |  |  |  |  |
|  | **Key Knowledge concept =** Transferring energy or information by waves  **Attitudes and Skills**  **TENSILE:**Numeracy  **Numeracy** = Using equations | | | Required Practical = Wavelength frequency and speed of waves |  | Required Practical = Reflection of light |

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| 25 | 26 | 27 | **28** | 29 | 30 | 31 | 32 |
| **P6 cont…** | | | | | | | |
| **Mid Topic Assessment** |  |  |  |  |  |  | **End of P6 Topic Test** |
|  |  | Required Practical = IR radiation | |  |  |  |  |

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| **33** | 34 | 35 | 36 | 37 | 38 | 39 |  |
| **Revision for Mocks**  **Exam Skills/Past Paper Questions** | | | **Year 10 Mocks** | | **Mock Paper reflection**  **Consolidation of Yr 10 Physics Content** | |  |
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