# Class of 2024 – Combined Physics

## Long Term Plan 2020-21

| | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
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| Cycle 1 | **W/C 24/08** | **W/C 31/08** | **W/C 07/09** | **W/C 14/09** | **W/C 21/09** | **W/C 28/09** | **W/C 05/10** | **W/C 12/10** | **W/C 02/11** | **W/C 09/11** | **W/C 16/11** | **W/C 23/11** | **W/C 30/11** |
| | | **P3 Particle model of matter** What is internal energy and latent heat? | **P3 Particle model of matter** How can we measure specific heat capacity? | **P4 Atomic structure** What is the structure of an atom? | **P4 Atomic structure** What is radiation? | **P4 Atomic structure** How can we measure radioactivity? | **P4 Atomic structure** What have we learnt in P4? | **What have we learnt?** Interleaving: P3 | **What have we learnt?** Interleaving: P1, P3 and P4 | **What have we learnt?** Interleaving: P1, P3 and P4 | **P2 Electricity** How can we represent circuits? | **P2 Electricity** How can we investigate potential difference? | **P2 Electricity** What are resistors? |
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| Cycle 2 | **W/C 07/12** | **W/C 14/12** | **W/C 04/01** | **W/C 11/01** | **W/C 18/01** | **W/C 25/01** | **W/C 01/02** | **W/C 08/02** | **W/C 22/02** | **W/C 01/03** | **W/C 08/03** | **W/C 15/03** | **W/C 22/03** |
| | **P2 Electricity** What have we learnt so far in P2? | **P2 Electricity** What is the difference between series and parallel circuits? | **P2 Electricity** How can we measure power? | **P2 Electricity** What is the national grid? | **P2 Electricity** Wjhat have we learnt in P2? | **P5 Forces** What different types of forces are there? | **P5 Forces** How can we represent forces? | **What have we learnt?** Interleaving: P3 | **What have we learnt?** Interleaving: P1, P2, P3 and P4 | **What have we learnt?** Interleaving: P1, P2, P3 and P4 | **P5 Forces** What does it mean to 'resolve' a force? | **P5 Forces** How are forces linked to elasticity? | **P5 Forces** How can we investigate the effect of a force on extension? |
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| Cycle 3 | **W/C 12/04** | **W/C 19/04** | **W/C 26/04** | **W/C 03/05** | **W/C 10/05** | **W/C 17/05** | **W/C 24/05** | **W/C 07/06** | **W/C 14/06** | **W/C 21/06** | **W/C 28/06** | **W/C 05/07** | **W/C 12/07** |
| | **P5 Forces** What have we learnt in P5? | **P5 Forces** How can we calculate speed? | **P5 Forces** How can we calculate acceleration? | **P5 Forces** What does 'terminal velocity' mean? | **P5 Forces** How can we investigate acceleration? | **P5 Forces** What is the relationship between forces and braking? | **P5 Forces** What have we learnt in P5? | **What have we learnt?** Interleaving: C9 | **What have we learnt?** Interleaving: C1, C2, C3, C4, C5, C6 and C9 | **What have we learnt?** Interleaving: C1, C2, C3, C4, C5, C6 and C9 | **What have we learnt?** Interleaving: P3 | **What have we learnt?** Interleaving: P1 | **What have we learnt?** Interleaving: P4 |
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