



Physics Rugby Free Secondary School Curriculum Sequence Overview 2024-25

Key Stage 2 Key Links:

1. Light
2. Earth and Space
3. Forces and Magnets
4. States of Matter
5. Sound
6. Electricity
7. Force and their effects

Year 7 Link to Key Stage 2:

1. 7P1 – Forces (KS2 – 2, 3, 7)
2. 7P2 – Sound, Light and Vision (KS2 – 1, 5)
3. 7P3 – Heating and Cooling (KS2 – 4)
4. 7P4 – Moving by a force (KS2 – 3, 7)
5. 7P5 – Series Circuits (KS2 – 6)

Year 8 Link to Year 7:

1. 8P1 – Making Images (KS2 – 1, 7P2)
2. 8P2 – Magnets and Electromagnets (KS2 – 3, 7P1, 7P5)
3. 8P3 – Hidden Forces (7P1, 7P5)
4. 8P4 – Waves – (7P2, 7P4, 8P1)

Year 9 Link to Year 8:

1. 9P1 – KS3 – Resistance and Parallel circuits
2. 9P2 KS4 – Energy and Energy Resources (KS3 – 7P2, 7P3, 7P4, 8P1, 8P2)
3. 9P2 – Motion (KS3 – 7P2)
4. 9P3 – Forces and Momentum (KS3 – 7P1, 7P2, 7P3)

Year 10 Link to Year 9:

1. 10P1 – Light and the EM Spectrum (KS3 – 7P4, KS4 – 9P1, 9P4)
2. 10P2 – Radioactivity (KS4 – 9P1, 10P1)
3. 10PT – Astronomy (KS3 – 7P1, KS4 – 9P3, 9P4, 10P1)
4. 10P3 – Energy and forces doing work (KS4 – 9P1, 9P3)
5. 10P4 – Forces – Bending and Stretching (KS4 – 9P1, 9P3)

Year 11 Link to Year 10:

1. 10P4 – Electricity (KS3 – 8P2, KS4 – 9P1)
2. 11P1 – Magnetism and Electromagnetism (KS3 – 8P2, 8P3, KS4 – 10P3, 10P4)
3. 11P2 – Heating and Pressure (KS3 – 8P1, KS4 – 9P1, 9P2, 9P3, 10P3)

Year 12 Link to Year 11:

1. Unit 1 – Measurements and Errors
2. Unit 2 – Particles and Radiation (10P2)
3. Unit 3 – Waves (9P4, 10P1)
4. Unit 4a – Mechanics (9P1, 9P2, 9P3)
5. Unit 4b – Materials (10P4)
6. Unit 5 – Electricity (10P1)

Year 13 Link to Year 12:

1. Unit 6a – Periodic Motion and Further Mechanics (Unit 4a+b)
2. Unit 6b – Thermal Physics (KS4 – 11P2, KS5 – Unit 4a+b)
3. Unit 7a – Gravitational Fields (Unit 4a, 6a)
4. Unit 7b – Electrical Fields (Unit 1, 5, 8)
5. Unit 7c – Capacitance (Unit 5, 7b)
6. Unit 7d – Magnetism (KS4 – 11P1, KS5 – Unit 2, 3, 5, 7b)
7. Unit 7e – EM Induction (KS4 – 11P1, KS5 – Unit 2, 3, 4, 5, 6a, 7b)
8. Unit 8 – Nuclear (KS4 – 10P2, KS5 – Unit 1, 5, 7b)

