

Year 10 TRIPLE - Physics Name:

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| Sept - Oct | <ul style="list-style-type: none"> • Topic 3 – Calculating gravitational potential and kinetic energy • Topic 3 – Conservation of energy • Topic 3 – Drawing Sankey diagrams • Topic 3 - Efficiency • Topic 3 – Reducing energy losses • Topic 3 – Energy resources • <i>Topic 2 and 3 test</i> |
| Nov - Dec | <ul style="list-style-type: none"> • Topic 4 and 5 – Describing waves • Topic 4 and 5 – Calculating wave speeds • Topic 4 and 5 – Reflection • Topic 4 and 5 – Refraction • Topic 4 and 5 - Lenses • Topic 4 and 5 – Ultrasound and infrasound |
| Jan - Feb | <ul style="list-style-type: none"> • Topic 4 and 5 – Colour • Topic 4 and 5 – The electromagnetic spectrum • Topic 4 and 5 – Radiation and temperature • <i>Topic 4 and 5 test</i> |
| Feb - March | <ul style="list-style-type: none"> • Topic 6 – Atomic structure and isotopes • Topic 6 – Electron orbits • Topic 6 – Background radiation • Topic 6 – Radioactive decay equations • Topic 6 – Half life • Topic 6 – Uses and dangers of radiation |
| April - May | <ul style="list-style-type: none"> • Topic 6 – Medical uses of radiation • Topic 6 – Nuclear fission and fusion • Topic 7 – The solar system • Topic 7 – Gravity and orbits • Topic 7 –Life cycle of a star • Topic 7 – Red shift and the origins of the universe |
| June – July | <ul style="list-style-type: none"> • Test 3 - Y10 exam (Topics 2-6) • Topic 8 – Energy transfers • Topic 8 – Work done • Topic 8 – Gravitational potential and kinetic energy • Topic 8 – Power and efficiency |

Test 1 – (Topic 2 and 3 test – Forces, motion and energy)

Test 2 – (Topic 4 and 5 test – Waves and the EM Spectrum)

Test 3 – End of Y10 Exam (Topics 2 – 6)

| Year 11 TRIPLE - Physics Name: | |
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| Sept - Oct | <ul style="list-style-type: none"> • Topic 9 – Forces and free body force diagrams • Topic 9 – Vectors and vector diagrams • <i>Test 1 Topic 7 & 8 & 9 test</i> • Topic 10 – Circuit symbols • Topic 10- Electric current • Topic 10- Potential difference • Topic 10- Electric charge • Topic 10- Electrical resistance |
| Nov - Dec | <ul style="list-style-type: none"> • Topic 10 – Ohm’s law • Topic 10 – IV relationships • Topic 10 – Electrical power • Topic 10– AC and DC • Topic 11– Electrostatic charges • Topic 11– Uses and dangers of static electricity • Topic 11– Electric fields • <i>Test 2 Mock exam 1 (Topics 1 – 7)</i> |
| Jan - Feb | <ul style="list-style-type: none"> • <i>Test 3 Topic 10 & 11 test</i> • Topic 12– Magnets and magnetic fields • Topic 12– Magnetic forces (higher only) • Topic 13– Electromagnetic induction • Topic 13– Transformers and the National Grid |
| Feb - March | <ul style="list-style-type: none"> • <i>Test 4 Mock exam 2</i> • Topic 14– Kinetic theory and density • Topic 14– Specific heat capacity • Topic 14– Specific latent heat • Topic 14– Gas laws |
| April – May | <ul style="list-style-type: none"> • Topic 15– Elastic and inelastic distortion • Topic 15– Pressure in fluids • Topic 15– Upthrust |
| Test 1 – Topic 7 & 8 and 9 test | |
| Test 2 – Mock exam 1 (Topics 1-7) | |
| Test 3 Topic 10 & 11 Test | |
| Test 4 – Mock exam 2 (Topics 8 – 13) | |