

## Physics

**Note – Lessons are delivered to students earlier or later depending on how much curriculum time you get for Biology, Chemistry and Physics in that particular year. So some students learn about a topic in the Autumn term in one class and other students learn about it in the Spring term. Try to find where you are up to. (Note – all students will receive the exact same amount of curriculum time between Years 7 and 11 by the end of Year 11)**

### Year 7 Physics Autumn term

Click on the links, read the information and watch the clips. Make brief notes and complete the test your knowledge quizzes.

<b>Unit Title: P7a Forces (Autumn Term)</b>
<a href="#">Introduction to forces - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Motion and speed - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Representing journeys - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Weight and mass - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Force diagrams and resultant forces - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Friction - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Hooke's law - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">What is gravity guide for KS3 physics students - BBC Bitesize</a>

### Year 7 Physics Spring term

<b>Unit Title: P7b Space (Spring Term)</b>
<a href="#">Features of our solar system guide for KS3 physics students - BBC Bitesize</a> <a href="#">Days, months, years and seasons guide for KS3 physics students - BBC Bitesize</a> <a href="#">Phases of the Moon - BBC Bitesize</a> <a href="#">Sun as a star KS3 Physics guide for students - BBC Bitesize</a> <a href="#">Light years guide for KS3 physics students - BBC Bitesize</a>

### Year 7 Physics Summer term

<b>Unit Title: P7c Energy (Summer Term)</b>
<a href="#">Energy stores and energy transfers - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Energy in the home - Energy - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Energy calculations - Energy - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Generating electricity guide for KS3 physics students - BBC Bitesize</a>

## **Year 8 Physics**

Click on the links, read the information and watch the clips. Make brief notes and complete the test your knowledge quizzes.

<b>Unit Title: P8a Waves (Autumn Term)</b>
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<a href="#">Features of waves links to energy transfer guide for KS3 physics students - BBC Bitesize</a> <a href="#">Ray diagrams and transmission of light guide for KS3 physics students - BBC Bitesize</a> <a href="#">Reflection guide for KS3 physics students - BBC Bitesize</a> <a href="#">Refraction and lenses guide for KS3 physics students - BBC Bitesize</a> <a href="#">Visible light and additive mixing of light guide for KS3 physics students - BBC Bitesize</a> <a href="#">Revise what colour is, which colours the eye sees and the practical uses of colour in photography. - BBC Bitesize</a> <a href="#">Introduction to sound waves guide for KS3 physics students - BBC Bitesize</a> <a href="#">Speed of sound and echoes for KS3 Physics - BBC Bitesize</a> <a href="#">The human ear and uses of sound waves guide for KS3 physics students - BBC Bitesize</a>
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## **Year 8 Physics Autumn term**

## **Year 8 Physics spring term**

<b>Unit Title: P8b Electricity and Magnetism (Spring Term)</b>
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<a href="#">What is electricity guide for KS3 physics - BBC Bitesize</a> <a href="#">Static electricity - BBC Bitesize</a> <a href="#">Conductors and insulators - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Introduction to circuits - Electricity - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Electric current and potential difference guide for KS3 physics students - BBC Bitesize</a> <a href="#">Series circuits - Electricity - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Parallel circuits - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Resistance - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Magnetism guide for KS3 physics students - BBC Bitesize</a> <a href="#">Magnets and magnetic materials - BBC Bitesize</a> <a href="#">Electromagnetism guide for KS3 physics students - BBC Bitesize</a>
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## **Year 8 Physics Summer term**

<b>Unit Title: P8b Levers and Moments (Spring/Summer Term)</b>
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<a href="#">Moments - Forces and movement - KS3 Physics - BBC Bitesize - BBC Bitesize</a> <a href="#">Planning an experiment - Working scientifically - KS3 Science - BBC Bitesize - BBC Bitesize</a> <a href="#">Graphs and charts - Working scientifically - KS3 Science - BBC Bitesize - BBC Bitesize</a> <a href="#">Maths skills for science - Working scientifically - KS3 Science - BBC Bitesize - BBC Bitesize</a>
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## **Year 9 Physics Autumn term**

TASK - Click on the links, read the information and watch the clips. Make brief notes and complete the test your knowledge quizzes.

**Unit Title: Conservation and dissipation of energy**

[Types of energy store - Changes in energy stores - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Work, power and efficiency - Work, power and efficiency - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 9 Physics Spring term**

**Unit Title: Energy transfer by heating**

[Energy and heating - Energy and heating - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Unit Title: Energy resources**

**Unit Title: Molecules and Matter**

[National and global energy demands and resources - Energy demands - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)  
[Density - Density of materials - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Multiple choice questions - Sample exam questions - energy - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)  
[States of matter - Temperature change and energy - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Particle motion - Particles in gases - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Multiple choice questions - Sample exam questions - particle model of matter - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 9 Physics Summer term**

**Unit Title: Wave Properties**

[Types of waves - Properties of waves - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Longitudinal waves - Transverse and longitudinal waves - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Reflection of waves - Reflection and refraction - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Required practical - how different surfaces affect infrared intensity - Infrared radiation absorption and radiation by a surface - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Multiple choice questions - Sample exam questions - waves - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 10 Physics Autumn term**

**Unit Title: Electromagnetic waves**

[Electromagnetic waves - Transverse and longitudinal waves - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Behaviour and uses of electromagnetic waves - Transverse and longitudinal waves - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Ultraviolet, electromagnetic waves in medicine and ionising radiation - Transverse and longitudinal waves - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Unit Title: Electrical circuits**

[Electrical circuit symbols - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Electrical charge and current - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Potential difference and resistance - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Required practical - investigate the factors that affect resistance - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Required practical - investigate current - voltage graphs - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Series circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Parallel circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Required practical - investigate resistor networks - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Energy and power in electric circuits - Electric circuits - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 10 Physics Spring term**

**Unit Title: Electricity in the home**

[Alternating and direct current - Mains electricity and alternating current - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Household electricity - Mains electricity and alternating current - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Electrical appliances - Mains electricity and alternating current - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Alternating current and the National Grid - Mains electricity and alternating current - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Unit Title: Electromagnetism**

[Poles of a magnet - Magnetic fields - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[What is an electromagnet? - Electromagnets and transformers - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Multiple choice questions - Sample exam questions - magnetism and electromagnetism - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 10 Physics Summer term**

**Unit Title: Radioactivity**

[Radioactive decay - Radioactive decay - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Irradiation - Uses and dangers of radiation - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Multiple choice questions - Sample exam questions - atomic structure - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 11 Physics Autumn term**

**Unit Title: Forces in balance**

[Scalar quantities - Scalar and vector quantities - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Contact forces - Contact and non-contact forces - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Gravitational fields - Gravity - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Unit Title: Motion**

[Motion in a straight line - Describing motion - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Multiple choice questions - Sample exam questions - forces - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**Year 11 Physics Spring term****Unit Title: Force and motion**

[Newton's First Law - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Newton's Second Law - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Required practical - investigating how force affects acceleration - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Required practical - investigating how mass affects acceleration - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Newton's Third Law - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Forces and braking - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Terminal velocity - Forces, acceleration and Newton's laws - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

[Change of shape - Forces and elasticity - AQA - GCSE Combined Science Revision - AQA Trilogy - BBC Bitesize](#)

**End of Physics curriculum**