**Year 10**

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| GCSE Physics 8463- <https://filestore.aqa.org.uk/resources/physics/specifications/AQA-8463-SP-2016.PDF> |
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| Half term | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Content | **Physics**  **Force and motion**  Includes:  Scalars and Vectors  Distance-time graphs  Velocity-time graphs  Acceleration  Constant acceleration formulae  Newton’s laws  momentum  **Required practical:**  **Force and acceleration** | **Physics**  **Stopping distances, electrical circuits**  Includes:  Finishing off Newton’s laws and momentum  Stopping distances.  Electrical charges and fields  Current and charge  Potential difference and resistance.  Component characteristics  **Required practical:**  **Investigating VI characteristics** | **Physics**  **Electrical circuits, heat radiation**  Includes:  Series circuits  Parallel circuits  Conduction  Infrared radiation  Specific Heat capacity  **Required practicals:**  **Investigating resistance**  **Infrared radiation**  **Specific heat capacity** | **Physics**  **Heat radiation, Electricity at home**  Includes:  Heating and insulating buildings  Specific latent heat  AC/DC  Cables and plugs  Power and potential difference  Current and energy  Appliances and efficiency  **Required practical:**  **Insulating materials** | **Physics**  **Electricity at home, radioactivity**  Includes:  Electricity at home summary and assessment  Isotopes  Discovery of the nucleus  Radioactive decay  Uses of ionising radiation  Half life  Radiation in medicine | **Physics**  **Radioactivity, Space**  Includes:  Fission and fusion  The solar system  Star life cycles  Orbits  Redshift and the big bang |
| Assessment | Assessment on graphs of motion and acceleration. | Assessment on Newton’s laws and stopping distances. | Assessment on Electrical circuits | Assessment on Heat radiation | Assessment on electricity at home | Assessment on radioactivity  Assessment on Space |

**Year 11**

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| GCSE Chemistry 8462- <https://filestore.aqa.org.uk/resources/physics/specifications/AQA-8463-SP-2016.PDF> |

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| Half term | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
| Content | **Physics**  **Forces.**  Includes:  Moments, levers and gears  Centre of mass  Parallelogram of forces  Resolution of forces | **Physics**  **Light, pressure**  Includes:  Reflection and refraction  Light and colour  Lenses  Pressure on surfaces  Pressure in liquids  Atmospheric pressure  Upthrust and floatation  **Required practical:**  **Reflection and refraction** | **Physics**  **Pressure, electromagnetism**  Includes:  Gas pressure and temperature  Gas pressure and volume  Magnetic fields  Fields of electric currents | **Physics**  Electromagnets in devices  The motor effect  The generator effect  AC generator  Transformers | **Physics**  Revision of topics in paper 1 and paper 2.  Physics specific vocabulary and equations. HSW, data handling and command words in Physics. |  |
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| Assessment | **Mock**  **Physics. To include content from paper 1 and paper 2.**  Assessment on forces | Assessment on Light | Assessment on Pressure  **Mocks –Physics. To include content from paper 1 and paper 2.** | Assessment on electromagnetism | Key assessments on HSW and using equations. |  |