**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 VectorsDistance-time graphsVelocity-time graphsAccelerationConstant acceleration formulaeNewton’s lawsmomentum**Required practical:****Force and acceleration** | **Physics****Stopping distances, electrical circuits**Includes:Finishing off Newton’s laws and momentumStopping distances.Electrical charges and fieldsCurrent and chargePotential difference and resistance.Component characteristics**Required practical:****Investigating VI characteristics** | **Physics****Electrical circuits, heat radiation**Includes:Series circuitsParallel circuitsConductionInfrared radiationSpecific Heat capacity **Required practicals:****Investigating resistance****Infrared radiation****Specific heat capacity** | **Physics****Heat radiation, Electricity at home**Includes:Heating and insulating buildingsSpecific latent heatAC/DCCables and plugsPower and potential differenceCurrent and energy Appliances and efficiency**Required practical:****Insulating materials** | **Physics****Electricity at home, radioactivity**Includes:Electricity at home summary and assessmentIsotopesDiscovery of the nucleusRadioactive decayUses of ionising radiationHalf lifeRadiation in medicine | **Physics****Radioactivity, Space**Includes:Fission and fusionThe solar systemStar life cyclesOrbitsRedshift 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 radioactivityAssessment 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 gearsCentre of massParallelogram of forcesResolution of forces  | **Physics****Light, pressure**Includes:Reflection and refractionLight and colourLensesPressure on surfacesPressure in liquidsAtmospheric pressureUpthrust and floatation**Required practical:****Reflection and refraction** | **Physics****Pressure, electromagnetism**Includes:Gas pressure and temperatureGas pressure and volumeMagnetic fieldsFields of electric currents | **Physics**Electromagnets in devicesThe motor effect The generator effectAC generatorTransformers | **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. |  |