Curriculum Assessment Map: Year 10 Physics

	Autumn Term	Spring Term	Summer Term
Topic	**Electricity**	**Atomic structure**	**Waves** **Triple (space physics)**
Key Learning & Skills	Key Learning • Pupils to be able to draw accurate circuit diagrams • Pupils to be able to describe charge, current, voltage and resistance • Pupils to be able to compare series and parallel circuits • Pupils to be able to describe the role of resistors • Pupils to be able to calculate power • Pupils to describe difference between AC and DC • Pupils to be able to explain the role of national grid in supply houses with electricity • Skills • **Mathematic skills**: Using equations linked to electricity • **Practical skills:** Pupils to develop their skills on building circuits	Key Learning • Pupils to describe the structure of atoms • Pupils to discuss the history of discovering the atom • Pupils to be able to describe the process of radioactive decay • Pupils to be able to complete nuclear equations • Pupils to be able to describe half-life and radioactive waste • Pupils to describe the uses of irradiation • Skills • **Mathematic skills**: Completing nuclear equations • **Practical skills:** Pupils to utilise moly mods to create structures of atoms	Key Learning • Pupils to describe transverse and longitudinal waves • Pupils to describe the properties of waves • Pupils to describe the waves of the electromagnetic spectrum Triples only • Pupils to describe our solar system • Pupils to describe the life cycle of a star • Pupils to explain the orbits of satellites • Pupils to use red shift to explain the Big Bang theory Skills • **Mathematic skills**: Using equations linked to waves • **Practical skills:** Pupils to use apparatus measure frequency, wavelength and speed of waves
End points	Please see module specific endpoints throughout books	Please see module specific endpoints throughout books	Please see module specific endpoints in books
Informal (*formative*) Assessment	• Live feedback in lessons • Midpoint assessment of a 6-mark exam question based on content covered. • Feedback is provided by a whole class feedback sheet	• Live feedback in lessons • Midpoint assessment of a 6-mark exam question based on content covered. • Feedback is provided by a whole class feedback sheet	• Live feedback in lessons • Midpoint assessment of a 6-mark exam question based on content covered. • Feedback is provided by a whole class feedback sheet
Formal (*summative*) Assessment	• End of topic assessment • Feedback is individualised	• End of topic assessment • Feedback is individualised	• End of topic assessment • Feedback is individualised

Curriculum encompassing literacy, careers and enrichment as well as interconnectivity with other subjects

Curriculum Assessment Map: Year 11 Physics

	Autumn Term	Spring Term	Summer Term
Topic	**Electricity and magnetism** **Triple only: Static electricity**	**Particle model**	**Paper 1 and paper 2 Physics revision**
Key Learning & Skills	Key Learning • Pupils to draw and create electrical circuits • Pupils to compare series and parallel circuits and how current and voltage can be calculated from the arrangement • Pupils can explain what current, potential difference and resistance is and how this can be calculated • Pupils can investigate the effect of adding resistors into a circuit including and LDR and thermistor • Pupils can explain the difference between a.c. and d.c. • Pupils can explain the role of different wires, switches and fuses on a circuit • Pupils can explain what a magnetic field is and how magnets • Pupils can use Flemings left hand rule • Pupils can explain what electromagnets are • Pupils can explain the role of the national grid • **Triple only**: Pupils to be able to explain what static electricity is and the uses of this. Pupils to explain what an electric field is Skills • **Mathematic skills**: Pupils to use equations to calculate energy transferred, charge, potential difference and power **Practical skills:** Pupils to investigate electrical circuits	Key Learning • Pupils to explain how particles move and are arranged in different states of matter • Pupils to investigate and calculate density in solids and gases. • Pupils to explain the difference between physical and chemical changes • Pupils to compare specific heat capacity and specific latent heat • Pupils to explain how to reduce energy transfer through thermal insulation • Pupils to explain what happens when heating substances • Pupils to explain what kelvin is and convert between this and Celsius • **Triple only**: Pupils to be able to explain gas pressure. Skills • **Mathematic skills**: Pupils calculate density and specific heat capacity and specific latent heat • **Practical skills:** Pupils to investigate densities in different shaped objects and mediums. Pupils to investigate specific heat capacity	Key Learning • Pupils will be recapping content covered in their GCSE exam • QLA's will inform what topics to revise in class and for intervention • Knowledge will be applied to exam questions Skills • **Mathematic skills**: Pupils to recap common maths skills covered in the specification • **Practical skills:** Pupils to recap all Physics core practicals
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