Year 11: Physics

Curriculum Intent: in year 11 combined science Physics the aim is to build on students' knowledge learned from year 7-10 to being able to apply this knowledge. Exam skills will be taught through recapping the knowledge the students have developed in the following topics:

- Matter
- Forces
- **Electricity and Magnetism**
- Waves and Radioactivity
- Energy



	- Global Challenges						
	Topic 1 Topic 2 Matter Forces	Topic 3 Topic 4 Electricity and Waves and Magnetism Radioactivity	Topic 5 Energy	Topic 6 Global Challenges			
Key ideas	 The particle model Model of the atom Changes of state Specific heat capacity Specific latent heat Motion Vectors, scalars, velocity Acceleration Newton's laws Momentum Work and power Stretching springs 	 Static and charge Simple circuits Ohm's law Magnets and magnetic fields Motors Wave behaviour The electromagn spectrum Radioactive emissions Alpha, beta a gamma radiation Nuclear equations Half-life 	efficiency • Paying for electricity	 Physics on the move Everyday motion Stopping distance Powering Earth Energy resources The national grid Mains electricity 			
Sequence of Learning - Key Questions	All questions will be covered from years 7-10 topics						
Vocabulary	All vocabulary will be covered from years 7-10 topics						
Practical Skills	All practical skills will be recapped from years 7 – 10 topics						

Assessment (Related to mastery grids)	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions	AO1 - Tassomai AO2 – applying knowledge – exam style questions
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