

Physics
Year 11 curriculum map

Year 11 Combined Science	T1	T2	T3	T4	T5	T6
Content / Topic for Term	Year 10 PPE topic review Electromagnetism	Electromagnetism	Recap, revise, targeted PPE intervention	Recap, revise, targeted PPE intervention	Recap, revise, targeted PPE intervention	GCSE examinations
Key Knowledge for acquisition, recall and application in assessment or exam	Year 10 PPE topic review • first three weeks review content identified from PPE covey grid Electromagnetism • magnetic fields • magnetic fields and electric current • electromagnets • motor effects	Electromagnetism (cont) • motors • flux calculations	Recap, revise, targeted PPE intervention	Recap, revise, targeted PPE intervention	Recap, revise, targeted PPE intervention	
Key skills to apply in assessment or exam	• Use scientific vocabulary, terminology and definitions. • Carrying out and represent mathematical and statistical analysis.	• Use scientific vocabulary, terminology and definitions. • Plan experiments or devise procedures to make observations,	• Use scientific vocabulary, terminology and definitions.	• Use scientific vocabulary, terminology and definitions.	• Use scientific vocabulary, terminology and definitions.	

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	Recognise the importance of scientific quantities and understand how they are determined.	produce or characterise a substance, test hypotheses, check data or explore phenomena.				
Title of Knowledge Organiser	Electromagnetism	Electromagnetism	Various KOs	Various KOs	Various KOs	

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Year 11 Separate Science	T1	T2	T3	T4	T5	T6
Content / Topic for Term	Year 10 PPE topic review Forces 2 (cont)	Electromagnetism	Electromagnetism (cont)	Optics	Space	GCSE Examinations
Key Knowledge for acquisition, recall and application in assessment or exam	Year 10 PPE topic review • first three weeks review content identified from PPE covey grid Forces 2 • Newton's Laws • inertia and mass • terminal velocity • stopping distance • momentum • conservation of momentum • changes in momentum	Electromagnetism • magnetic fields • magnetic fields and electric current • electromagnets • electromagnetic devices • motor effect	Electromagnetism • Motors • Flux calculations • Generators • Transformers Optics • Lenses • Ray diagrams	Optics (cont) • magnification • visible light • black body radiation Space • our solar system • life cycle of a star	Space (cont) • formation of elements • orbital motion • redshift	

Key skills to apply in assessment or exam	• Use scientific vocabulary, terminology and definitions. • Carrying out and represent mathematical and statistical analysis. • Recognise the importance of scientific quantities and understand how they are determined.	• Use scientific vocabulary, terminology and definitions. • Plan experiments or devise procedures to make observations, produce or characterise a substance, test hypotheses, check data or explore phenomena.	• Use scientific vocabulary, terminology and definitions. • Use scientific vocabulary, terminology and definitions. • Plan experiments or devise procedures to make observations, produce or characterise a substance, test hypotheses, check data or explore phenomena.	• Use scientific vocabulary, terminology and definitions. • Explain every day and technological applications of science; evaluate associated personal, social, economic and environmental implications; and make decisions based on the evaluation of evidence and arguments. • Use a variety of models such as representational, spatial, descriptive, computational and mathematical to solve problems, make predictions and to develop scientific explanations and	• Use scientific vocabulary, terminology and definitions. • Use a variety of models such as representational, spatial, descriptive, computational and mathematical to solve problems, make predictions and to develop scientific explanations and understanding of familiar and unfamiliar facts. • Appreciate the power and limitations of science and consider any ethical issues which may arise.	
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				understanding of familiar and unfamiliar facts.		
Title of Knowledge Organiser	Forces 2	Electromagnetism	Electromagnetism	- Optics - Space	Space	