Subject	Year 11 Core Knowledge –	How to support students' learning
	Autumn/Spring/Summer term	
Science –	Autumn Term	
Physics	Waves –	
	1. Describe transverse and	Students follow the AQA specification. If students
	longitudinal waves.	are studying for 'Combined Science' we follow AQA
	2. Describe the properties of waves.	trilogy.
	3. Recall the types of electromagnetic	
	waves.	Students can set themselves questions on educake
	4. Recall the properties of	using the revision wizard. They can also use their
	electromagnetic waves.	science revision guide which can be purchased on
	5. Describe uses and applications of	the school shop. In addition, the appropriate BBC
	electromagnetic waves.	bitesize links for topics are included below:
	6. Describe reflection of waves.	
	(Triple only).	Autumn – Triple -
	7. Describe sound waves. (Triple	https://www.bbc.co.uk/bitesize/topics/zcwkgdm
	only).	
	8. Describe how waves are used for	Combined -
		https://www.bbc.co.uk/bitesize/topics/z2j22nb
	detection and exploration. (Triple	
	only).	
	9. Understand lenses. (Triple only).	
	10. Understand visible light. (Triple	
	only).	
	11. Understand emission and	
	absorption of infrared radiation.	
	(Triple only).	
	12. Understand perfect black bodies	
	and radiation. (Triple only).	
	Spring Term	
	Magnetism and	
	Electromagnetism -	Spring – Triple -
	<ol><li>Understand the poles of the</li></ol>	https://www.bbc.co.uk/bitesize/topics/z39ry4j
	magnet.	
	14. Describe a magnetic field.	Combined -
	15. Understand electromagnetism.	https://www.bbc.co.uk/bitesize/topics/zwkww6f
	16. Understand and use Fleming's left-	
	hand rule. (HT only).	
	17. Understand electric motors. (HT	
	17. Understand electric motors. (HT only).	
	only).	
	only). 18. Describe how a loudspeaker works.	
	only). 18. Describe how a loudspeaker works. (Triple only).	
	only). 18. Describe how a loudspeaker works. (Triple only). 19. Describe uses of the generator	
	only). 18. Describe how a loudspeaker works. (Triple only). 19. Describe uses of the generator effect. (Triple only).	
	only). 18. Describe how a loudspeaker works. (Triple only). 19. Describe uses of the generator effect. (Triple only). 20. Describe how a microphone works.	
	only). 18. Describe how a loudspeaker works. (Triple only). 19. Describe uses of the generator effect. (Triple only). 20. Describe how a microphone works. (Triple only).	
	only). 18. Describe how a loudspeaker works. (Triple only). 19. Describe uses of the generator effect. (Triple only). 20. Describe how a microphone works.	