Subject	Year 10 Core Knowledge – Autumn/Spring/Summer term	How to support students' learning
Science – Biology	Autmn Term Infection and Response – 1. Describe a communicable diseases. 2. Understand viral diseases. 3. Understand bacterial diseases. 4. Understand fungal diseases. 5. Understand protist diseases. 6. Describe the first line of defence. 7. Describe the second line of defence. 8. Describe the third line of defence. 9. Describe how vaccination works. 10. Compare antibiotics and painkillers. 11. Describe the process for discovery and development of drugs. 12. Describe uses of monoclonal antibodies (Triple only). 13. Describe the detection and identification of plant diseases (Triple only). 14. Describe the detection and identification of plant diseases (Triple only). 15. Describe plant defence responses (Triple only).	 Students can revise on the following websites: Educake: www.educake.co.uk Oak academy lessons: https://continuityoak.org.uk/lessons Free science lessons: https://www.youtube.com/c/freescienceless Ons BBC bitesize- select Biology (Single science) and then AQA if studying for Triple Science or Combined and then select AQA Trilogy if studying Combined Science and then select the relevant topics – https://www.bbc.co.uk/bitesize/levels/z98j mp3 Save my exams - https://www.savemyexams.com/gcse/ Primrose Kitten - https://www.primrosekitten.com/collections /gcse Past paper questions can be found on the Physics and Maths Tutor website for all three science subjects - https://www.physicsandmathstutor.com/
	 Spring Term Bioenergetics – Describe photosynthesis including the use of a balanced formula equation. Describe rates of photosynthesis. Recall uses of glucose from photosynthesis. Describe aerobic respiration. Describe anaerobic respiration. Describe and explain the body's response to exercise. Define metabolism. Summer Term Homeostasis and Response – Describe the human endocrine system. Describe the control of blood glucose concentration. Describe the role of hormones in human reproduction. 	

26.	Describe what happens at a	
	synapse.	
	Explain what a stimulus is.	
28.	Explain what an effector is/give	
	examples.	
29.	Describe what happens in a reflex	
	arc.	
30.	Describe the role of contraception.	
31.	Describe the use of hormones to	
	treat infertility. (HT only)	
32.	Describe negative feedback. (HT	
	only)	
33.	Describe maintaining water and	
	nitrogen balance in the body.	
	(Triple only)	
34.	Describe control and coordination.	
	(Triple only)	
35.	Describe the use of plant	
	hormones. (Triple only)	
36.	Explain the roles of the cerebrum,	
	cerebellum and medulla. (Triple	
	only)	
37.	Understand how we know the roles	
	of different parts of the	
	brain. (Triple only)	
38.	Explain how the lens helps us to	
	focus. (Triple only)	
39.	Label a diagram of the eye. (Triple	
	only)	
40.	Explain how the pupil reflex	
	works. (Triple only)	
Δ1	Understand what causes	
	shortsightedness and long	
	sightedness and explain how they	
	might be corrected. (Triple only)	
12	Evaluate the various treatments for	
42.	eye defects. (Triple only)	
	eye delects. (Thple Only)	