Subject	Y11 Threshold Knowledge – Autumn/Spring/Summer term	How to support students' learning
Science - Biology	Autumn Term Inheritance, variation and evolution - 1. Describe sexual and asexual reproduction. 2. Describe meiosis. 3. Describe DNA and the genome. 4. Describe genetic inheritance. 5. Recall inherited disorders. 6. Describe sex determination. 7. Describe variation. 8. Describe evolution. 9. Describe selective breeding. 10. Describe genetic engineering 11. Describe evidence for evolution. 12. Describe what fossils show. 13. Describe extinction. 14. Explain how resistant bacteria form. 15. Describe davantages and disadvantages of sexual and asexual reproduction. 17. Describe DNA structure. 18. Describe cloning. 19. Describe the theory of evolution and speciation. Spring Term Ecology - 20. Describe communities. 21. Describe abiotic factors. 22. Describe abiotic factors. 23. Describe alotic factors. 24. Describe levels of organisation. 25. Describe how materials are cycled. 26. Describe waste management. 28. Explain land use. 29. Explain deforestation. 30. Explain global warming. 31. Describe maintaining biodiversity. 32. Describe maintaining biodiversity. 33. Explain the impact of environmental change. (Triple only) 35. Understand pyramids of biomass. (Triple only) 36. Describe the transfer of biomass. (Triple only) 37. Explain factors affecting food security. (Triple only) 38. Describe farming techniques. (Triple only)	 Students follow the AQA specification. If students are studying for 'Combined Science' we follow AQA trilogy. Students can set themselves questions on Educake using the revision wizard. They can also use their science revision guide which can be purchased on the school shop. In addition, the appropriate BBC bitesize links for topics are included below: Triple - https://www.bbc.co.uk/bite size/topics/zpb7cj6 Combined - https://www.bbc.co.uk/bite size/topics/zppffcw Triple - https://www.bbc.co.uk/bite size/topics/zxfd3k7 Combined - https://www.bbc.co.uk/bite size/topics/zxxfd3k7 Combined - https://www.bbc.co.uk/bite size/topics/zxxhh39

39. Describe sustainable fisheries. (Triple only)	
40. Describe the role of biotechnology. (Triple only)	