Department: Science A Level Physics

Year 13

Plan Of Learning For The Year (Unit/Topic/Project Context)			
Half Term 1 • 6 Thermal Physics • 8 Nuclear physics	 Half Term 4 7 Fields and their consequences 9 Astrophysics 		
 Half Term 2 6 Thermal Physics 8 Nuclear physics 	Half Term 5Revision		
 Half Term 3 7 Fields and their consequences 9 Astrophysics 	 Half Term 6 Study Leave 		

Feedback, Retrieval & Assessment	Super curriculum opportunities / extra-curricular activities	Cultural Capital, SMSC, Careers and Futures
 Regular self and peer assessment Regularly assessed homework Termly Teacher Assessment Termly Formal Assessment (FA) Learning logs used to guide feedback and develop students' mindset 	 Collaboration with AMRC, Sheffield Hallam University and the University of Sheffield Sessions run by external speakers on Physics topics (e.g., nuclear physics, rocket design) 	 Application of Physics in real life contexts embedded throughout the course Development of skills to meet the practical endorsement to allow students to progress to onto practical based degrees Careers session run with the AMRC about apprenticeships

Common misconceptions	Connecting New Knowledge	Challenge for all
 The difference between nuclear fission and nuclear fusion Recalling all the different measurements of distance in astrophysics The difference between Kelvin and Degrees Celsius 	 Linking GCSE knowledge to new A Level ideas to build upon prior knowledge Notes provided to students on content Spaced retrieval homework that covers a wide selection of knowledge to develop deeper understanding of content 	 Support is given in lesson for those students who have not taken A Level Mathematics Modelling in lessons is key to showing students the steps involved in each process Students are encouraged to question everything to build a deep understanding of the knowledge