Department: Science Applied Science	Year 13

Plan Of Learning For The Year (Unit/Topic/Project Context)

Half Term 1
- Unit 4 The Digestive System and Diet
- Unit 5 Investigating Science Prepare for a scientific investigation
- Unit 6 Medical Physics Describe the underlying theory behind two of the imaging methods listed.

Half Term 2
- Unit 4 The musculoskeletal System and movement
- Unit 5 Investigating Science Carry out the investigation and record results
- Unit 6 Medical Physics Select one medical condition and identify a suitable and an unsuitable technique for investigating the condition.

Half Term 3
- Unit 4 How oxygen is transported in the blood and how physiological measurements can be applied
- Unit 5 Investigating Science Analyse results, draw conclusions and evaluate the investigation
- Unit 6 Medical Physics Describe, with the aid of diagrams, two radiotherapy techniques, including the disease or disorder linked with each.

Half Term 4
- Unit 4 The structure and function of the nervous system and brain
- Unit 5 Investigating Science Present the findings of the investigation to a suitable audience
- Unit 6 Medical Physics Identify the properties of one radioisotope used for a radiotherapy technique

Half Term 5
- Unit 4 Nerve impulses
- Unit 5 Investigating Science Review and submission
- Unit 6 Medical Physics Outline how radioisotopes can be used as tracers. Describe the dangers of radioactivity and the precautions taken to protect medical staff and patients.

Half Term 6
- Unit 4 Revision and Exam
- Unit 5 Investigating Science Submission
- Unit 6 Medical Physics - Submission

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	• Applied science allows students to applied scientific understanding to real work situations. There are opportunities for trips to breweries to see science applied in a business.	• Application of Biology, Chemistry and Physics in real life contexts embedded throughout the course • Development of skills to complete the practical elements of the course • Careers session run with the AMRC about apprenticeships

Common misconceptions	Connecting New Knowledge	Challenge for all
Harvard referencing skills How to present scientific posters Key terms – accuracy, reliability, uncertainty, repeatability, reproducibility The roles of organs of the body	• Linking GCSE knowledge to new contexts • Notes provided to students on content • Spaced retrieval homework that covers a wide selection of knowledge to develop deeper understanding of content • Revision guides loaned to students for the course • Building skills and understanding to allow students to study at undergraduate level	• Students are supported to enable them to work towards distinction level work.