KS5 Curriculum Overview: BTEC Level 3 National Extended Diploma in Applied Science

BTEC Applied Science embodies a fundamentally learner-centred approach to the curriculum, with a flexible, unit-based structure and knowledge applied in project-based internally assessed assessments and externally assessed exams. They focus on the holistic development of the practical, interpersonal and thinking skills and along-side these skills students develop work ready-skills such as team working skills, experience of research, extended writing and meeting deadlines. These skills will help students to succeed in employment and higher education. The course that we are studying is Pearson BTEC Level 3 National Extended Diploma in Applied Science, Equivalent in size to three A Levels. 13 units of which 7 are mandatory and 4 are external. Mandatory content (67%). External assessment (42%).

	Autumn Term	Spring Term	Summer Term
Year 12	Curriculum and Skills: Skills Students will develop interpersonal and thinking skills, team working skills, experience of research, application of numeracy, extended writing and meeting deadlines. Curriculum Unit 1 Principles and Applications of Science I. This unit includes many fundamental elements of Biology, Chemistry and Physics. Unit 3 Science Investigation Skills. This unit prepares learners for the world of practical science, planning, carrying out and evaluating experiments.	Curriculum and Skills: Skills: Students will develop practical, interpersonal and thinking skills, team working skills, experience of research, application of numeracy and information technologies, extended writing and meeting deadlines. Curriculum Unit 5 Principles and Applications of Science II (externally assessed). Additional fundamentals of Biology, Chemistry and Physics are covered in this unit. Unit 2 Practical Scientific Procedures and Techniques 4 Assignments (internally assessed)	Curriculum and Skills: Skills: Students will develop practical, interpersonal and thinking skills, communication skills, team working skills, experience of research, customer awareness, extended writing and meeting deadlines. Curriculum Unit 21: Medical Physics Applications (internally assessed) 3 Assignments (90 Guided Learning Hours) Unit 6 Investigative Project (internally assessed) 3 Assignments (90 Guided Learning Hours)
	Assessment: Unit 1: Principles and Applications of Science I (externally assessed). It is assessed by a 1.5 hour written paper, taken in year 12, worth 90 marks. Unit 3 Science Investigation Skills (externally assessed). Assessment is 2 supervised sessions in a three-week period, 3 hours for the practical part A and 1.5 hours for a Part B which is a written paper. Submission of investigation notes and written paper, worth 60 marks	Assessment: Unit 5 Principles and Applications of Science II (externally assessed). Assessment is in the form of a two-hour paper, worth 120 marks. Unit 2 Practical Scientific Procedures and Techniques 4 Assignments (internally assessed).	Assessment: Unit 21: Medical Physics Applications (internally assessed) 3 Assignments Unit 6 Investigative Project (internally assessed) 4 assignments

Year 13	Curriculum and Skills: Skills: interpersonal and thinking skills, team working skills, experience of research, application of numeracy, extended writing and meeting deadlines, self-management, teamworking, customer awareness, problem solving, communication and literacy, application of numeracy and information technologies Curriculum Unit 12: Diseases and Infection (internally assessed). 4 Assignments. Unit 16: Astronomy and Space Science (internally assessed) 4 Assignments. Unit 4 Laboratory Techniques and their Application (internally assessed).	Curriculum and Skills: Skills: interpersonal and thinking skills, team working skills, experience of research, application of numeracy, extended writing and meeting deadlines, self-management, teamworking, customer awareness, problem solving, communication and literacy, application of numeracy and information technologies Curriculum Unit 23: Forensic Evidence, Collection and Analysis (internally assessed) 4 Assignments. Unit 15: Electrical Circuits and their Applications (internally assessed) 4 Assignments. Unit 8: Physiology of Human Body Systems (internally assessed).	Curriculum and Skills: Skills: interpersonal and thinking skills, team working skills, experience of research, application of numeracy, extended writing and meeting deadlines, self-management, teamworking, customer awareness, problem solving, communication and literacy, application of numeracy and information technologies **Curriculum:** Unit 7 Contemporary Issues in Science (externally assessed).
	Assessment: Unit 12: Diseases and Infection (internally assessed). 4 Assignments Unit 16: Astronomy and Space Science (internally assessed). 4 Assignments. Unit 4 Laboratory Techniques and their Application (internally assessed). 4 Assignments	Assessment: Unit 23: Forensic Evidence, Collection and Analysis (internally assessed) 4 Assignments Unit 15: Electrical Circuits and their Applications (internally assessed) 4 Assignments Unit 8: Physiology of Human Body Systems (internally assessed). 3 Assignments	Assessment: Unit 7 Contemporary Issues in Science (externally assessed). Two weeks prior to a supervised assessment of 2.5 hours, information on a topical issue will be provided and supervised research time is provided. The written paper is worth 50 marks.