

Applied Science Curriculum Intent

The intent of the Piggott Applied Science curriculum is to ensure that students experience this STEM subject (assessed through the Pearson BTEC National Extended Certificate in Applied Science via the OCR exam board) by emphasising its scientific nature in the design and structure of the curriculum whilst simultaneously developing students' ability to think like a practical scientist.

This means that there is a holistic approach to the sequential teaching.

This should enhance the learning of students with special educational needs such as dyslexia as students have been provided with a context for studying the content, in particular when they complete the coursework element of this course.

Students would also understand that the processes of scientific inquiry and how this is the narrative thread that runs through all areas of Science -Biology Chemistry and Physics. This is entrenched in both the compulsory and optional units studied.

By the end of the course it is expected that the students are able to think more critically and analyse their own degree of empiricism in investigative science.

Knowledge, understanding and evaluation of scientific inquiry is continually assessed through retrieval practice in lessons and regular opportunities for summative assessment at key points.

The outcomes of these assessments provide the students with the opportunity for reflection as a means of formative assessment for themselves and their teachers, where they can focus on the areas which require deeper processing. This would result in permanent knowledge acquisition, whilst also building literacy skills.