



## Curriculum Map

Subject: Medical Science

Year Group: 12 & 13

	Autumn Term	Spring Term	Summer Term
<b>Year 12</b>	<p><b>Unit 1 (28/90 GLH)</b> This unit develops knowledge and understanding of human anatomy and physiology. The unit will develop an understanding of the function of organ systems and some problems that can occur in these systems. The unit will enable learners to understand the normal functioning of the body at a cellular and physiological system level. They will learn how these systems react in different situations, and how these systems can go wrong in order to report on health of individuals.</p> <p><b>Unit 2 (45/45 GLH)</b> This unit develops knowledge and understanding about the physiological measurements that can be made to assess the function of major body systems. It relates anatomy and physiology to physiological measurement test results, through an understanding of the principles of the measurement techniques. The unit will enable learners to perform tests which will accurately measure a range of physiological functions. They will be able to interpret the results of these tests and other tests and link this to possible physiological disorders.</p>	<p><b>Unit 1 (24/90 GLH)</b> As before</p> <p><b>Unit 3 (45/45 GLH)</b> This unit develops knowledge and understanding of planning, conducting and reporting of research in medical sciences using a range of methodologies and techniques. It is intended to enable the acquisition of the necessary knowledge and skills to carry out research in order to obtain meaningful information. It also seeks to promote an understanding of the processes involved in drawing meaningful inferences from research data. Learners will use their knowledge and understanding of research methods to conduct their own research. They will process the data they have collected and make evidence based conclusions.</p>	<p><b>Unit 1 (38/90 GLH)</b> As before</p> <p><b>Unit 4 (32/100 GLH)</b> This unit develops knowledge and understanding about the science of medicines, and how they work through their interactions with body systems. It also introduces cancer, its relationship to genetics, and the range of therapeutic treatments available. The unit will enable learners to provide information to a range of audiences on how medicines work, to bring about effective treatment of diseases and disorders.</p>
<b>Year 13</b>	<p><b>Unit 4 (68/100 GLH)</b> As before</p>	<p><b>Unit 5 (30/45 GLH)</b> As before</p>	<p><b>Unit 6 (10/35 GLH)</b> As before</p>

	<b>Autumn Term</b>	<b>Spring Term</b>	<b>Summer Term</b>
	<p><b>Unit 5 (15/45 GLH)</b>            This unit develops knowledge and understanding about the clinical laboratory techniques that can be used to assess body functions. It relates knowledge and understanding of human physiology and biochemistry to clinical measurement test results through an understanding of the principles of the measurement techniques. The unit will enable learners to perform tests which will accurately measure a range of biochemical and microbiological parameters. They will be able to interpret the results of their tests, and other test results and link these results to possible physiological disorders.</p>	<p><b>Unit 6 (25/35 GLH)</b>            This unit is the overall synoptic unit for the Diploma qualification. It provides the opportunity for candidates to demonstrate their understanding of the connections between the other five units of this Medical Science qualification. The content of this unit requires candidates to apply skills, techniques, knowledge, understanding and concepts from across the qualification content in order to complete the required assessment. The assessment provides integrated and purposeful contexts in which candidates will demonstrate the knowledge, understanding and skills they have developed through all the other units within the qualification. The contexts provided are medical case studies, which require candidates to analyse the information provided and develop a thorough assessment of the situation based on their knowledge and understanding gained from the other units of this qualification.</p>	
<b>Skills Developed</b>	Throughout the course learners will develop a plethora of skills including but not limited to: <ul style="list-style-type: none"> <li>• Collecting physiological data from patients</li> <li>• Planning and liaising effectively with support staff to set up their own practical tests</li> <li>• Designing their own qualitative and quantitative methods to collect data</li> <li>• Processing data using graphical methods</li> <li>• Using mathematical skills to interpret data</li> <li>• Communicating effectively to report on health</li> <li>• Making effective links throughout the whole course to complete a full medical case study of a patient</li> </ul>		
<b>Assessment</b>	Unit 1 and Unit 6 – External examinations Unit 2, 3, 4, 5 – Internally assessed through practical coursework and presentations		

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	Formative assessment will be used thoroughly during lessons during starters, plenaries, classwork and homework		
<b>Literacy, Numeracy, Diversity, IT and British Values.</b>	<p>Literacy: The course promotes good literacy and scientific literacy throughout. Unit 4 is assessed through presentation, which will help students plan and present a formal piece of work this will rely on strong literacy skills. Unit 3 will require learners to carry out a great deal of their own medical research and evaluate research. This will expose the learners to longer scientific texts and require a high level of literacy and comprehension skills from the pupils.</p> <p>Numeracy: Numeracy is essential throughout the course. The use of statistics is essential in Unit 4 when analysing medical research. The pupils are expected to be able to analyse statistics and graphical representations of data in Unit 1 and Unit 4. The pupils will have to present their findings from the practical work they carry out throughout the course graphically and will be able to confidently manipulate data from their findings in these practicals.</p> <p>Diversity: Pupils will be exposed to a variety of case studies that exhibit a wide range of diversity. During the study of disease in Unit 4 learners will see how the prevalence of certain diseases varies between demographics and this will be discussed at length.</p> <p>IT: Pupils will use IT in lessons to help undertake their medical research project. They will be assessed on their ability to perform a presentation that they will have to prepare using IT skills. Pupils will need to use IT to present and manipulate their findings from practical work.</p> <p>British Values: Particularly in Unit 2 when taking physiological measurements from individuals, learners will be exposed to topics such as individual liberty and mutual respect.</p>		