

2022-2023 Year 12 Curriculum and Assessment Plan for Medical Science

<p>The curriculum and assessment of pupils at this stage of education has been carefully designed to Enable them to deepen their understanding of how the cell and organism function, how medicine can be prescribed and administered to correct malfunctions of these systems, and use scientific investigation to make conclusions and critically evaluate data and conclusions based on evidence.</p>					
<p>Half Term 1:</p> <p>All pupils will know: Unit 1: Human health and disease and Unit 2: Physiological measurement techniques of WJEC Level 3 Applied Diploma in Medical Science (Teaching from 2016)</p> <p>All pupils will be assessed by: By short recall activities, electronic automatically marked homework's and longer answer short tests focussed on the topics. There will also be a longer exam as part of the data gathering for the whole year group twice a year. The cohort will also undertake internal assessments as part of their course.</p> <p>Impact- Why do we teach this? Unit 1 Content gives students the fundamental scientific knowledge on which all other topics will be based around in medicine, from how drugs affect the body, to how it is tested and monitored in Unit 2.</p>	<p>Subject specific skills being developed:</p> <ul style="list-style-type: none"> • Reading skills • Vocabulary skills • Investigative skills • How science works • STEM • Data gathering and analysis 	<p>Half Term 2:</p> <p>All pupils will know: Unit 1: Human health and disease and Unit 2: Physiological measurement techniques of WJEC Level 3 Applied Diploma in Medical Science (Teaching from 2016)</p> <p>All pupils will be assessed by: By short recall activities, electronic automatically marked homework's and longer answer short tests focussed on the topics. There will also be a longer exam as part of the data gathering for the whole year group twice a year. The cohort will also undertake internal assessments as part of their course.</p> <p>Impact- Why do we teach this? Unit 1 Content gives students the fundamental scientific knowledge on which all other topics will be based around in medicine, from how drugs affect the body, to how it is tested and monitored in Unit 2.</p>	<p>Subject specific skills being developed:</p> <ul style="list-style-type: none"> • Reading skills • Vocabulary skills • Investigative skills • How science works • STEM • Data gathering and analysis 	<p>Half Term 3:</p> <p>All pupils will know: Unit 1: Human health and disease and Unit 3: Medical science research methods of WJEC Level 3 Applied Diploma in Medical Science (Teaching from 2016)</p> <p>All pupils will be assessed by: By short recall activities, electronic automatically marked homework's and longer answer short tests focussed on the topics. There will also be a longer exam as part of the data gathering for the whole year group twice a year. The cohort will also undertake internal assessments as part of their course.</p> <p>Impact- Why do we teach this? Unit 1 Content gives students the fundamental scientific knowledge on which all other topics will be based around in medicine, from how drugs affect the body, to how it is tested and monitored in Unit 2. Unit 3 will allow students to design, carry out and analyse data from investigations into hypothesise they have made and make conclusions, as well as critically evaluate based on evidence.</p>	<p>Subject specific skills being developed:</p> <ul style="list-style-type: none"> • Reading skills • Vocabulary skills • Investigative skills • How science works • STEM • Data gathering and analysis
	<p>Reading Skills needed for this unit: Critical Evaluation of journals, data, texts. Key Vocabulary:</p>		<p>Reading Skills needed for this unit: Critical Evaluation of journals, data, texts. Key Vocabulary:</p>		<p>Reading Skills needed for this unit: Critical Evaluation of journals, data, texts. Key Vocabulary:</p>
	<p>Opportunity for cross-curricular skill development</p> <ul style="list-style-type: none"> • Graphing, • Calculations • algebra 		<p>Opportunity for cross-curricular skill development</p> <ul style="list-style-type: none"> • 		<p>Opportunity for cross-curricular skill development</p> <ul style="list-style-type: none"> •
<p>Half Term 4:</p> <p>All pupils will know: Unit 1: Human health and disease and Unit 3: Medical science research methods of WJEC Level 3 Applied Diploma in Medical Science (Teaching from 2016)</p> <p>All pupils will be assessed by: By short recall activities, electronic automatically marked homework's and longer answer short tests focussed on the topics. There will also be a longer exam as part of the data gathering for the whole year group twice a year. The cohort will also undertake internal assessments as part of their course.</p> <p>Impact- Why do we teach this?</p>	<p>Subject specific skills being developed:</p> <ul style="list-style-type: none"> • Reading skills • Vocabulary skills • Investigative skills • How science works • STEM • Data gathering and analysis 	<p>Half Term 5:</p> <p>All pupils will know: Unit 1: Human health and disease WJEC Level 3 Applied Diploma in Medical Science (Teaching from 2016)</p> <p>All pupils will be assessed by: By short recall activities, electronic automatically marked homework's and longer answer short tests focussed on the topics. There will also be a longer exam as part of the data gathering for the whole year group twice a year. The cohort will also undertake internal assessments as part of their course. There UNIT 1 External exam will also be taken during this time.</p> <p>Impact- Why do we teach this? Unit 1 Content gives students the fundamental scientific knowledge on which all other topics will be</p>	<p>Subject specific skills being developed:</p> <ul style="list-style-type: none"> • Reading skills • Vocabulary skills • Investigative skills • How science works • STEM • Data gathering and analysis 	<p>Half Term 6:</p> <p>All pupils will know: Unit 4: Medicines and treatment of disease and Unit 5: Clinical laboratory techniques of WJEC Level 3 Applied Diploma in Medical Science (Teaching from 2016)</p> <p>All pupils will be assessed by: By short recall activities, electronic automatically marked homework's and longer answer short tests focussed on the topics. There will also be a longer exam as part of the data gathering for the whole year group twice a year. The cohort will also undertake internal assessments as part of their course.</p> <p>Impact- Why do we teach this? Unit 4 content will start to build on unit 1 knowledge and give the students the ability to understand and predict how drugs may be prescribed, work and be</p>	<p>Subject specific skills being developed:</p> <ul style="list-style-type: none"> • Reading skills • Vocabulary skills • Investigative skills • How science works • STEM • Data gathering and analysis
	<p>Reading Skills needed for this unit: Critical Evaluation of journals, data, texts. Key Vocabulary:</p>		<p>Reading Skills needed for this unit: Critical Evaluation of journals, data, texts. Key Vocabulary:</p>		<p>Reading Skills needed for this unit: Critical Evaluation of journals, data, texts. Key Vocabulary:</p>

<p>Unit 1 Content gives students the fundamental scientific knowledge on which all other topics will be based around in medicine, from how drugs affect the body, to how it is tested and monitored in Unit 2. Unit 3 will allow students to design, carry out and analyse data from investigations into hypothesise they have made and make conclusions, as well as critically evaluate based on evidence.</p>	<p>Opportunity for cross-curricular skill development</p> <ul style="list-style-type: none"> • 	<p>based around in medicine, from how drugs affect the body, to how it is tested and monitored in Unit 2. Unit 3 will allow students to design, carry out and analyse data from investigations into hypothesise they have made and make conclusions, as well as critically evaluate based on evidence.</p>	<p>Opportunity for cross-curricular skill development</p> <ul style="list-style-type: none"> • 	<p>disposed by the body based on many factors that medical professionals have to consider. Unit 5 will give the student skills and the ability to carry out diagnostic tests based upon those used in the medical industry and analyse results based on these in a medical scenario.</p>	<p>Opportunity for cross-curricular skill development</p> <ul style="list-style-type: none"> •
<p>Ensuring this curriculum meets the needs of all pupils: this curriculum has been designed to ensure pupils from all starting points will develop the key curriculum skills and knowledge identified. The curriculum design ensures that each unit forms part of the overall learning journey and there are opportunities for revisiting skills and linking together key pieces of knowledge. Whole Academy policies and practices are followed to tailor the delivery of the curriculum for individuals and groups of students. For example SEND students have individual learning profiles that outline needs/strategies to be used, Whole group RIPs are in place to identify key teaching strategies that will be used with individual teaching groups. Ongoing formative assessment and clear summative assessment points allow individual staff and departments to identify misconception and adjust curriculum appropriately.</p>					
<p>Enrichment opportunities:</p> <ul style="list-style-type: none"> • Visit universities • Visit Healthcare settings • Take part in scientific research 					
<p>Career opportunities/ links: Health and Social and Medical professions ranging from Nurse and paramedic, through to lab research and drug development.</p>					