

Biology

Year 12 Curriculum Map

Module One	Module Two	Module Three	Module Four
<p>Topic: Development of practical skills in biology</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • 1.1 Practical skills assessed in a written examination • 1.2 Practical skills assessed in the practical endorsement. <p>Assessment: Students gain practical skills throughout the course. These are assessed in the written examinations and in the practical endorsement (component 04).</p>	<p>Topic: Foundations in biology</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • 2.1.1 Cell structure • 2.1.2 Biological molecules • 2.1.3 Nucleotides and nucleic acids • 2.1.4 Enzymes • 2.1.5 Biological membranes • 2.1.6 Cell division, cell diversity and cellular Organisation <p>Assessment:</p> <ul style="list-style-type: none"> • AO1 - Demonstrate knowledge and understanding of scientific ideas, processes, techniques and procedures. • AO2 - Apply knowledge and understanding of scientific ideas, processes, techniques and procedures: • in a theoretical context • in a practical context • when handling qualitative data • when handling quantitative data. • AO3 – Analyse, interpret and evaluate scientific information, ideas and evidence, including in relation to issues, to: • make judgements and reach conclusions • develop and refine practical design and procedures. 	<p>Topic: Exchange and transport</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • 3.1.1 Exchange surfaces • 3.1.2 Transport in animals • 3.1.3 Transport in plants <p>Assessment: AO1; AO2 and AO3</p>	<p>Topic: Biodiversity evolution and diseases</p> <p>Key Learning:</p> <ul style="list-style-type: none"> • 4.1.1 Communicable diseases, disease prevention and the immune system • 4.2.1 Biodiversity • 4.2.2 Classification and evolution <p>Assessment: AO1; AO2 and AO3</p>