

	Autumn Term	Spring Term	Summer Term
Year 12	<p>Curriculum:</p> <p>Module 2: Foundations in Biology</p> <p>Teacher 1: 2.1.1. Cell structure 2.1.5. Biological membranes 2.1.6. Cell division, cell diversity and cellular organisation</p> <p>Teacher 2: 2.1.2. Biological molecules 2.1.3. Nucleotides and nucleic acid 2.1.4. Enzymes</p>	<p>Curriculum:</p> <p>Module 3: Exchange and Transport</p> <p>Teacher 1: 3.1.3. Transport in plants</p> <p>Teacher 2: 3.1.1. Exchange surfaces and breathing 3.1.2. Transport in animals</p> <p>Module 4: Biodiversity, Evolution and Disease</p> <p>Teacher 1: 4.1.1. Communicable disease</p> <p>Teacher 2: 4.2.1. Biodiversity 4.2.2. Classification and Evolution</p>	<p>Curriculum:</p> <p>Module 4: Biodiversity, Evolution and Disease (Continued)</p> <p>Teacher 1: 4.1.1. Communicable disease</p> <p>Teacher 2: 4.2.1. Biodiversity 4.2.2. Classification and Evolution</p> <p>Module 6: Genetics, Evolution and Ecosystems</p> <p>Teacher 1 and Teacher 2: 6.3.1. Ecosystems 6.3.2. Populations</p>
	<p>Formal Assessment*: Interim and end of topic tests for all units. Weekly homework set including past paper question practice. Assessed practical activities:</p> <ul style="list-style-type: none"> • Preparing and observing plant and animal tissues • Qualitative test for protein • Qualitative test for glucose • Investigating DNA structure using RasMol • Effect of substrate on rate of an enzyme-controlled reaction • Effect of enzyme concentration on rate of reaction • The effect of temperature on membrane permeability • Investigating osmosis in artificial cells • Using a light microscope to study mitosis • Stem cell research 	<p>Formal Assessment*: Interim and end of topic tests for all units. Weekly homework set including past paper question practice. Assessed practical activities:</p> <ul style="list-style-type: none"> • Fish head dissection • Dissection of a mammalian heart • Using a potometer • Dissection of a stem • The effect of antibiotics on bacterial growth <p>First Mock Exam after Christmas Holidays</p>	<p>Formal Assessment*: Interim and end of topic tests for all units. Weekly homework set including past paper question practice. Assessed practical activities:</p> <ul style="list-style-type: none"> • Calculation of species diversity • Measurement of the distribution and abundance of plants in a habitat • Calculation of species diversity in a pond • Investigating the rate of oxygen production in pondweed <p>End of Y12 Mock Exams</p>

*At CamSF, assessment happens at many levels and is perhaps most important when teachers assess what students have learned and remembered within the classroom. Timely feedback is so important in enabling progress and knowledge retention.

**Module 1 concerns practical skills and is taught throughout the course

	Autumn Term	Spring Term	Summer Term
Year 13	<p>Curriculum:</p> <p>Module 5: Communication, Homeostasis and Energy</p> <p>Teacher 1: 5.1.1 Communication & Homeostasis 5.2.1 Photosynthesis 5.2.2. Respiration</p> <p>Teacher 2: 5.1.2 Excretion 5.1.3 Neuronal Communication 5.1.4 Hormonal Communication 5.1.5 Animal & plant Responses</p>	<p>Curriculum:</p> <p>Module 6: Genetics, Evolution and Ecosystems</p> <p>Teacher 1: 6.1.2 Patterns of Inheritance 6.3.1. Ecosystems (continued) 6.3.2. Populations (continued)</p> <p>Teacher 2: 6.1.1 Cellular control 6.1.3. Manipulating genomes</p>	<p>Curriculum:</p> <p>Module 6: Genetics, Evolution and Ecosystems</p> <p>Teacher 1 & Teacher 2 6.2.1 Cloning & biotechnology</p> <p>Revision and preparation for examinations</p>
	<p>Formal Assessment*: Interim and end of topic tests for all units. Weekly homework set including past paper question practice. Assessed practical activities:</p> <ul style="list-style-type: none"> Investigation of factors that affect daphnia heart rate Thin layer chromatography to separate photosynthetic pigments Respiration rate of <i>S cerevisiae</i> 	<p>Formal Assessment*: Interim and end of topic tests for all units. Weekly homework set including past paper question practice. Assessed practical activities:</p> <ul style="list-style-type: none"> Dilution plating to determine density of microbes in a liquid culture <p>Y13 Mock Exams before February Half Term</p>	<p>Formal Assessment*: Interim and end of topic tests for all units. Weekly homework set including past paper question practice.</p> <p>Final Exams</p>

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