

Biology (HL) 11

Time: 8 x 35 minutes per week

Course Description:

The Grade 11 IB Biology course involves scientific study, data interpretation and creativity, related to a range of areas of Biology. These areas include cells, biochemical processes at the molecular level, genetics and ecological concepts. In addition to the core topics, the higher level biology will also include plant sciences and in-depth content on biochemistry. The option topics will be 'Ecology and conservation' and 'Microbes and biotechnology'. In addition, the internal assessments emphasize a practical approach through experimental work using biostatistics, ICT skills and scientific writing. Students will also acquire an understanding of data-based analytical studies.

Resources:

Biology for the IB Diploma (2014), Cambridge University Press
Andrew Allott (2014), IB Study Guide, Oxford Publication.

Main Topics Covered:

Semester 1

- Statistical analysis
- Cell Biology
- Molecular Biology
- Nucleic acids

Data-based questions and lab investigations

Semester 2

- Metabolism, cell respiration and photosynthesis
- Human physiology
- Nucleic acids

Data-based questions and lab investigations
 Revision

Assessment

Internal Assessment for Reports	Weighting
Quarter 1 – CA1 only Quarter 3 – CA3 only • End of Semester Examinations (SA1 Or SA2) • Continual Assessment (CA1 + CA2 Or CA3 + CA4) including: <ul style="list-style-type: none"> - Topic tests - Lab reports 	Quarter 2 (end of semester 1) – CA1+ CA2 + SA1 Quarter 4 (end of semester 2) – CA3+ CA4 + SA2 70 20 + 10
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