



### **Biology - IAL EdExcel**

Approximate available lessons based on 5 lessons per week over 37 week year; assuming approximately 16 lessons missed for holidays/other subject activities/PSHE/exams

Exact curriculum timings are approximate due to holidays/ other subject trips and activities / PHSE / internal examinations

All topics across KS5 will have ongoing formative assessment including:

- Questioning techniques
- Peer/self-marking and assessments
- Written exercises
- Presentations
- Class activities
- Practical work

All topics will have some form of summative assessment to test the knowledge and skills covered within the topic. These will take the forms of:

- End of topic tests
- Scientific Investigations

All topics will include practical work to ensure that the links between practical and theory are encouraged and emphasised.

	Year 12 Biology	Year 13 Biology																								
<b>Topic and Content</b>	<p><b>T1: Unit 1: Molecules, Transport and Health</b></p> <p><b>T2: Unit 2: Membranes, Proteins, DNA and Gene expression</b></p> <p><b>T3: Unit 3: Cell structure, reproduction and development</b></p> <p><b>Unit 4: Plant structure and Function, Biodiversity and Conservation</b></p> <p><b>T4: Exam Revision, Unit 5: 5B Ecology</b></p>	<p><b>T1 &amp; T2 :Topic 5: Energy flow, ecosystems &amp; the environment &amp; Topic 6: Microbiology, Immunity and forensics</b></p> <p><b>T2 &amp; T3: Topic 7: Respiration, muscles and the internal environment and Topic 8: Coordination, response and gene technology</b></p> <p><b>T3: Topic 8: Coordination, response and gene technology</b></p> <p><b>T4: Exam revision</b></p>																								
<b>Assessment Objectives and Weightings</b>	<p><b>Assessment objectives and weightings</b></p> <table border="1"> <thead> <tr> <th></th> <th></th> <th>% in IAS</th> <th>% in IA2</th> <th>% in IAL</th> </tr> </thead> <tbody> <tr> <td><b>AO1</b></td> <td>Demonstrate knowledge and understanding of science</td> <td>36-39</td> <td>31-34</td> <td>34-37</td> </tr> <tr> <td rowspan="2"><b>AO2</b></td> <td>(a) Application of knowledge and understanding of science in familiar and unfamiliar contexts.</td> <td>34-36</td> <td>33-36</td> <td>33-36</td> </tr> <tr> <td>(b) Analysis and evaluation of scientific information to make judgments and reach conclusions.</td> <td>9-11</td> <td>14-16</td> <td>11-14</td> </tr> <tr> <td><b>AO3</b></td> <td>Experimental skills in science, including analysis and evaluation of data and methods</td> <td>17-18</td> <td>17-18</td> <td>17-18</td> </tr> </tbody> </table>				% in IAS	% in IA2	% in IAL	<b>AO1</b>	Demonstrate knowledge and understanding of science	36-39	31-34	34-37	<b>AO2</b>	(a) Application of knowledge and understanding of science in familiar and unfamiliar contexts.	34-36	33-36	33-36	(b) Analysis and evaluation of scientific information to make judgments and reach conclusions.	9-11	14-16	11-14	<b>AO3</b>	Experimental skills in science, including analysis and evaluation of data and methods	17-18	17-18	17-18
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<b>Method of Summative Assessment</b>	<p>Projects</p> <p>Investigations</p> <p>End of Topic Tests</p> <p>Public Examinations in Jan (Unit 1) and June (Units 2 and 3)</p>	<p>Projects</p> <p>Investigations</p> <p>End of Topic Tests</p> <p>Public Examinations in Jan (Unit 4) and June (Units 5 and 6)</p>																								