**Sample Assessment Outline**

Biology

ATAR Year 11

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# Sample assessment outline

# Biology – ATAR Year 11

## Unit 1 and Unit 2

| **Assessment type**  | **Assessment type weighting**  | **Assessment task weighting** | **Due date** | **Assessment task** |
| --- | --- | --- | --- | --- |
| Science inquiry | 30% | 10% | Semester 1 Week 14 | **Task 1**: Environmental investigation –The effect of fire on ecosystems. Research and plan an investigation; collect data using biological field techniques; collate the data, analyse the results and write a scientific report in class under supervision. Start task in Weeks 2–3. |
| 5% | Semester 2 Week 3 | **Task 6**: Practical – Microscopy techniques. Prepare slides, set up and focus a microscope, state magnification, measure and calculate cell size, interpret images and draw diagrams. |
| 5% | Semester 2Week 4 | Task 7: Practical – The cell membrane. Infer the structure of the cell membrane from observations of beetroot in different solutions. |
| 10% | Semester 2Week 6 | Task 8: Investigation – Enzyme action. Plan and conduct an investigation to investigate factors affecting catalase enzyme activity. |
| Extended response | 10% | 5% | Semester 1Week 13 | Task 3: Population dynamics. Interpret a scientific text and respond to questions in class under supervised conditions. |
| 5% | Semester 2Week 9 | Task 10: Current research involving the control of cellular respiration and photosynthesis. Students research topics related to the control of photosynthesis or respiration and respond to questions in an in-class assessment. |
| Test | 20% | 5% | Semester 1 Week 8 | Task 2: Describing biodiversity test. Complete a 40-minute test, consisting of multiple-choice questions, short-answer questions and an extended-answer question, testing Science Inquiry Skills, Science as a Human Endeavour and the topic Describing biodiversity. |
| 5% | Semester 1 Week 15 | **Task 4**:Ecosystem dynamics test. Complete a 40-minute test, consisting of multiple-choice questions, short-answer questions and an extended-answer question, testing Science Inquiry Skills, Science as a Human Endeavour and the topic Ecosystem dynamics. |
| 5% | Semester 2Week 7 | Task 9: Cells as the basis of life test. Complete a 40-minute test, consisting of multiple-choice questions, short-answer questions and an extended-answer question, testing Science Inquiry Skills, Science as a Human Endeavour and the topic Cells. |
| 5% | Semester 2Week 15 | Task 11: Multicellular organisms test. Complete a 40-minute test, consisting of multiple-choice questions, short-answer questions and an extended-answer question, testing Science Inquiry Skills, Science as a Human Endeavour and the topic Multicellular organisms. |
| Examination | 40% | 15% | Semester 1Week 16 | Task 5: Semester 1 examination –2.5 hours using a modified examination design brief from the Year 12 syllabus  |
| 25% | Semester 2Week 16 | Task 12: Semester 2 examination –3 hours using the examination design brief from the Year 12 syllabus (Content weighting: Unit 3 – 50% and Unit 4 – 50%) |
| Total | 100% | 100% |  |  |