**Sample Assessment Outline**

Human Biology

ATAR Year 12

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# Sample assessment outline

# Human Biology – ATAR Year 12

## Unit 3 and Unit 4

| **Assessment type**  | **Assessment type weighting**  | **Assessment** **task** **weighting** | **When** | **Assessment task** |
| --- | --- | --- | --- | --- |
| Science inquiry | 10% | 2% | Semester 1 Week 8 | Task 3: Science inquiry (practical) – Thermoregulation in the human bodyA practical activity modelling thermoregulation and heat loss from the body. The practical component of the task will be completed in groups and the analysis of data and follow-up questions will be completed individually in class. |
| 4% | Semester 1 Week 12 | Task 5: Science inquiry (investigation) – Modelling the spread of pathogensA practical activity and investigation will be conducted to model the spread of pathogens. The practical activity and investigation planning and conducting will be conducted in groups, with the written report to be prepared individually in class. |
| 2% | Semester 2Week 3 | Task 7: Science inquiry (practical) – Simulating changes to gene poolsA practical activity simulating factors that can effect allele frequencies in popuations. The practical component of Parts A – C will be completed in groups. The discussion question for Parts A – C and the remainder of the task will be completed individually in class. |
| 2% | Semester 2 Week 10 | Task 10: Science inquiry (practical) – Our close relations (second-hand data)An activity using comparisons of amino acid sequences to infer the evolutionary relationships between selected vertebrates. The task will be completed individually in class. |
| Extended response | 15% | 7% | Semester 1 Week 2–4 | Task 1: Extended response – Recombinant DNA technology and its usesA research task resulting in the production of a model of the recombinant DNA technology that can be used to demonstrate the application of the process for improving the quality of life. The research will also consider the ethical concerns associated with this technology. This is an individual task with the application component completed in class. |
| 8% | Semester 2 Week 6 | Task 8: Extended response – Natural selection in humansA task involving the interpretation and evaluation of informational text and video related to natural selection in humans. This is an individual task completed by students during class time.  |
| Test | 25% | 5% | Semester 1 Week 6 | Task 2: Test – Endocrine and nervous systems Test consisting of 10 multiple choice questions, 3–4 short answer questions and one extended answer question. |
| 5% | Semester 1 Week 11 | **Task 4:** Test – HomeostasisTest consisting of 10 multiple choice questions, 3–4 short answer questions and one extended answer question. |
| 7% | Semester 2 Week 6 | **Task 9:** Test – Mutations and gene poolsTest consisting of 10 multiple choice questions, 3–4 short answer questions and one extended answer question. |
| 8% | Semester 2 Week 14 | **Task 11:** Test – Evidence for evolution and hominid evolutionary trendsTest consisting of 10 multiple-choice questions, 3–4 short answer questions and one extended answer question. |
| Examination | 50% | 15% | Examinationweek | Task 6: Examination – Semester 1 (Unit 3 content)Three hours, using the examination design brief from the syllabus Section One: 30 multiple-choice questions (30%)Section Two: 6–10 short-answer questions (50%)Section Three:two questions from a choice of three (20%) |
| 35% | Examinationweek | Task 12: Examination – Semester 2 (Unit 3 and 4 content)Three hours, using the examination design brief from the syllabus Section One: 30 multiple-choice questions (30%)Section Two: 6–10 short-answer questions (50%)Section Three: two questions from a choice of three (20%) |
| **Total** | **100%** | **100%** |  |  |