Government of **Western Australia**
School Curriculum and Standards Authority

SAMPLE ASSESSMENT OUTLINE

INTEGRATED SCIENCE
ATAR YEAR 12

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Sample assessment outline

Integrated Science – ATAR Year 12

Unit 3 and Unit 4

Assessment type	Assessment type weighting	Assessment task weighting	When	Assessment task
Science inquiry	25%	4%	Semester 1 Week 4	**Task 1:** Science inquiry (practical) – Gas exchange in fish A practical activity observing the effect of surface area to volume ratio of diffusion. 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.
		8%	Semester 1 Weeks 7–9	**Task 2:** Science inquiry (investigation) – Comparison of local aquatic ecosystems A field study investigating the effects of human impact on two aquatic ecosystems. The planning and conducting will be conducted in groups, with the written report to be prepared individually in class.
		4%	Semester 2 Week 9	**Task 9:** Science inquiry (practical) – Heat transfer A practical activity modelling heat transfer. 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.
		9%	Semester 2 Week 13	**Task 11:** Science inquiry (investigation) – Energy efficiency light bulbs An investigation comparing the efficiency of different light bulbs. The investigation planning and conducting will be conducted in groups, with the written report to be prepared individually in class.
Extended response	10%	5%	Semester 1 Week 12	**Task 4:** Extended response – Water treatment A research activity requiring the viewing of articles or videos relating to water treatment. A task involving the interpretation and evaluation of informational text and video related to water treatment. Annotated copies of the articles and notes from viewing the videos will be used to complete an individual in-class task.
		5%	Semester 2 Weeks 3–4	**Task 7:** Extended response – Vehicle engine design A research task culminating in the production of a scientific poster and presentation to the class on a selected engine design using an alternative fuel. This is an individual task completed during class time.
Test	25%	5%	Semester 1 Week 10	**Task 3:** Test – Importance of water and aquatic ecosystems Test consisting of 10 multiple-choice questions, 2–3 short answer questions and one extended answer question.
		5%	Semester 1 Week 14	**Task 5:** Test – Water resources and sustainability Test consisting of 10 multiple-choice questions, 2–3 short answer questions and one extended answer question.

Assessment type	Assessment type weighting	Assessment task weighting	When	Assessment task
		5%	Semester 2 Week 6	**Task 8:** Test – Energy transportation and sources of energy Test consisting of 10 multiple-choice questions, 2–3 short answer questions and one extended answer question.
		5%	Semester 2 Week 10	**Task 10:** Test – Electricity and heating Test consisting of 10 multiple-choice questions, 2–3 short answer questions and one extended answer question.
		5%	Semester 2 Week 14	**Task 12:** Test – Environmental and societal issues Test consisting of 10 multiple-choice questions, 2–3 short answer questions and one extended answer question.
Examination	40%	15%	Examination week	**Task 6:** Examination – Semester 1 This examination covers the content from Unit 3. Three hours, using the examination design brief from the syllabus Section One: 20 multiple-choice questions (20%) Section Two: 4–6 short answer questions (50%) Section Three: Two questions (30%)
		25%	Examination week	**Task 13:** Examination – Semester 2 This examination covers the content from Unit 3 (10%) and Unit 4 (15%). Three hours, using the examination design brief from the syllabus Section One: 20 multiple-choice questions (20%) Section Two: 4–6 short answer questions (50%) Section Three: Two questions (30%)
Total	**100%**	**100%**		