**Sample Assessment Outline**

Chemistry

General Year 11

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Sample assessment outline

Chemistry – General Year 11

Unit 1 and Unit 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment type  (from syllabus)** | **Assessment**  **type weighting  (from syllabus)** | **Assessment**  **task**  **weighting** | **Week** | **Assessment task** |
| Science inquiry/  Practical/  Investigation | 50% | 8% | Semester 1  Week 3 | **Task 1:** Investigation – Design and conduct an investigation assessing seaweed for chlorophyll using chromatography, and submit a report on the investigation |
| 5% | Semester 1  Week 6 | **Task 3:** Practical – Conduct laboratory activity and prepare a report on factors that affect solubility |
| 5% | Semester 1  Week 12 | Task 6: Practical – Conduct laboratory activity and prepare a report on measuring rates of reaction |
| 10% | Semester 1  Week 14 | **Task 7:** Investigation – Design and conduct an investigation to assess factors affecting rates of food decay, and submit a report on the investigation |
| 6% | Semester 2  Week 7 | **Task 10:** Practical test – Identifying properties of solutions (pH, electrolyte solution, ions in solution) and identify any ions in solution |
| 6% | Semester 2  Week 10 | **Task 12:** Investigation – Design and conduct an investigation to compare cleaning power of soaps and detergents |
| 10% | Semester 2  Week 14 | **Task 15:** Investigation – Design and conduct an investigation to measure nitrate, phosphate and biological oxygen demand in local water sources in relation to potential for eutrophication, and communicate findings to an audience using posters or podcasts or PowerPoint. |
| Extended  response | 20% | 6% | Semester 1  Week 7 | Task 4: Food labelling – Students select processed foods from categories (e.g. dairy, baked goods, breads, beverages, tinned fruits, tinned soups) and compare contents and their concentrations. Also identify additives, and relate stated concentration values to recommended daily intake of food types |
| 7% | Semester 1  Week 3 | Task 9: Students research natural factors affecting soil pH, effects of agricultural chemicals on soil pH, effects of soil pH on plant growth and methods to manage soil pH |
| 7% | Semester 2  Week 13 | Task 14: Students select an oil spill occurring in the last five years and research its clean-up and remediation of the affected area and plants and animals |
| Test | 30% | 5% | Semester 1  Week 4 | **Task 2:** Properties of matter |
| 7% | Semester 1  Week 11 | **Task 5:** Atomic structure, the language of chemistry and chemical reactions |
| 6% | Semester 1  Week 15 | **Task 8:** Reaction rates |
| 7% | Semester 2  Week 8 | **Task 11**: Analysis of aqueous solutions |
| 5% | Semester 2  Week 11 | Task 13: Aqueous solutions in action |
| Total | 100% | 100% |  |  |