**Sample Assessment Outline**

Chemistry

ATAR Year 11

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# Sample assessment outline

# Chemistry – ATAR Year 11

## Unit 1 and Unit 2

| **Assessment type  (from syllabus)** | **Assessment  type weighting (from syllabus)** | Assessment  task  weighting | **When** | **Assessment task** |
| --- | --- | --- | --- | --- |
| Science inquiry/ Practical/ Investigation | 25% | 5% | Semester 1  Week 3 | **Task 1:** Practical – Report on conduct of flame tests and observations of emission spectra and respond to laboratory quiz questions |
| 5% | Semester 1  Week 9 | **Task 3:** Investigation – Design and conduct of experiment to determine any effect of the anion (or cation) on the enthalpy changes in dissolving of ionic compounds (enthalpy of solution) |
| 5% | Semester 1  Week 11 | **Task 5:** Data analysis – Graph and analyse data on melting points of hydrocarbons to identify and explain trends |
| 5% | Semester 2  Week 10 | Task 9: Practical test – Design and carry out tests to identify unknown white powders (flame tests, solubility rules, reactions with acid etc.) |
| 5% | Semester 2  Week 13 | Task 12: Investigation – Design and conduct an investigation to compare the rates of reaction of different acids with metal carbonates |
| Extended response | 10% | 5% | Semester 1  Week 14 | Task 6: Comparing energy and CO2 output for combustion of fossil fuels and biofuels |
| 5% | Semester 2  Week 10 | Task 10: Sources of acid rain and its effects on natural and built environments |
| Test | 15% | 4% | Semester 1  Week 6 | Task 2: Properties and structure of atoms and materials – atomic structure, bond formation, trends in the PT, flame tests, isotopes, relative atomic mass and mass spectroscopy, pure substances, mixtures, elements, compounds, nanomaterials, ionic, metallic and covalent bonding, molecular formulae and percentage composition |
| 2% | Semester 1  Week 10 | **Task 4:** Chemical reactions: reactants, products and energy change |
| 2% | Semester 1  Week 14 | **Task 7:** Properties and structure of materials – hydrocarbons, alkanes, alkenes, benzene, IUPAC nomenclature, reactions of alkanes and alkenes |
| 5% | Semester 2  Week 5 | **Task 11:** Intermolecular forces and gases and Aqueous solutions and acidity |
| 2% | Semester 2  Week 14 | Task 13: Rates of chemical reactions |
| Examination | 50% | 20% | Semester 1  Week 16 | **Task 8:** Semester 1 examination – Covers Unit 1 content; based on the Year 12 examination design brief  2 hours – Section One: 20 multiple-choice questions (25% of the total examination), Section Two: 6–8 short answer questions (35% of the total examination), and  Section Three: 3–4 extended answer questions (40% of the total examination) |
| 30% | Semester 2  Week 16 | Task 14: Semester 2 examination – Covers Units 1 and 2 content with approximately  25% Unit 1 and 75% Unit 2; based on the Year 12 examination design brief  2.5 hours – Section One: 20 multiple-choice questions (25% of the total examination),  Section Two: 8–10 short answer questions (35% of the total examination), and  Section Three: 4–5 extended answer questions (40% of the total examination) |
| Total | 100% | 100% |  |  |