**Sample Assessment Outline**

Chemistry

ATAR Year 12

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# Sample assessment outline

# Chemistry – ATAR Year 12

## Unit 3 and Unit 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment type**  | **Assessment type weighting**  | **Assessment** **task** **weighting** | **When** | **Assessment task** |
| Science inquiry/ Practical/ Investigation | 20% | 5% | Semester 1Week 3 | **Task 1:** Investigation – Design and conduct of experiment to determine effect of catalysts on rate of reaction |
| 3% | Semester 1Week 8 | **Task 3:** Practical test – Use an acid-base titration to determine the base content in a commercial cleaner |
| 6% | Semester 2Week 2 | **Task 8:** AnalyticalInvestigation – Use a titration of acidified potassium permanganate solution with a range of plant and animal fats to determine their degree of unsaturation |
| 6% | Semester 2Week 3 | **Task 9:** AnalyticalInvestigation – Design and conduct of an investigation to identify functional groups in unknown organic compounds |
| Extended response | 10% | 5% | Semester 1Week 11 | **Task 5:** Research the chemical principles in the use of electrochemical cells/fuel cells in cars |
| 5% | Semester 2Week 11 | **Task 11:** Read information provided on ammonia production by the steam reforming and Haber processes, and from chicken feathers, conduct further research to answer questions |
| Test | 20% | 4% | Semester 1Week 4 | **Task 2:** Chemical equilibrium systems topic test |
| 4% | Semester 1Week 9 | **Task 4:** Acids and bases topic test |
| 4% | Semester 1Week 14 | **Task 6:** Oxidation and reduction topic test |
| 4% | Semester 2Week 6 | **Task 10:** Properties and structure of organic materials topic test |
| 4% | Semester 2Week 14 | **Task 12:** Chemical synthesis topic test |
| Examination | 50% | 20% | Examination week | **Task 7: Semester 1 examination**  |
| 30% | Examination week | **Task 13: Semester 2 examination**  |
| **Total** | **100%** | **100%** |  |  |