**Sample Assessment Outline**

Chemistry

General Year 12

**Copyright**

© School Curriculum and Standards Authority, 2015

This document – apart from any third party copyright material contained in it – may be freely copied, or communicated on an intranet, for non-commercial purposes in educational institutions, provided that the School Curriculum and Standards Authority is acknowledged as the copyright owner, and that the Authority’s moral rights are not infringed.

Copying or communication for any other purpose can be done only within the terms of the *Copyright Act 1968* or with prior written permission of the School Curriculum and Standards Authority. Copying or communication of any third party copyright material can be done only within the terms of the *Copyright Act 1968* or with permission of the copyright owners.

Any content in this document that has been derived from the Australian Curriculum may be used under the terms of the [Creative Commons Attribution 4.0 International licence](http://creativecommons.org/licenses/by/4.0/).

**Disclaimer**

Any resources such as texts, websites and so on that may be referred to in this document are provided as examples of resources that teachers can use to support their learning programs. Their inclusion does not imply that they are mandatory or that they are the only resources relevant to the course.

# Sample assessment outline

# Chemistry – General Year 12

## Unit 3 and Unit 4 (Unit 4 context – Materials Chemistry)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Assessment type**  | **Assessment type weighting**  | **Assessment** **task** **weighting** | **When** | **Assessment task** |
| Science inquiry/Practical/Investigation | 40% | 5% | Semester 1Week 3 | **Task 1:** Practical – Examining the properties of hydrocarbons, including boiling points and viscosity |
| 5% | Semester 1Week 11 | **Task 4:** Practical – Identifying saturated and unsaturated vegetable oils |
| 10% | Semester 1Week 13 | **Task 6:** Investigation – Conduct an experiment to determine the energy content of biofuels such as ethanol and vegetable oils using calorimetry, and preparation of report on experiment |
| 7.5% | Semester 2Week 2 | **Task 8:** Investigation – Design and conduct an experiment to compare heat conduction of different metals, and preparation of report on experiment |
| 7.5% | Semester 2Week 9 | **Task 10:** Practical – Reactions of a set of metals and metal ion solutions to develop a metal activity series |
| 5% | Semester 2Week 14 | **Task 13:** Practical – Factors that influence the rate of corrosion and methods of slowing corrosion |
| Extended response | 20% | 10% | Semester 1Week 3 | **Task 2:** Comparing biofuels and hydrocarbon fuels from crude oil |
| 10% | Semester 2Week 10 | **Task 12:** Extraction and refining of copper |
| Test | 25% | 5% | Semester 1Week 5 | **Task 3:** Crude oil |
| 5% | Semester 1Week 12 | **Task 5:** Polymers and vegetable oils  |
| 5% | Semester 2Week 6 | **Task 9:** Metal properties and structure and Alloys  |
| 5% | Semester 2Week 9 | **Task 11:** Metal reactions |
| 5% | Semester 2Week 15 | **Task 14:** Metal extraction and Metal corrosion |
| Externally set task | 15% | 15% | Semester 1Week 14 | **Task 7:** A task set by the SCSA based on content from Unit 3 – <teacher to insert information provided by the Authority> |
| **Total** | **100%** | **100%** |  |  |

# Sample assessment outline

# Chemistry – General Year 12

## Unit 3 and Unit 4 (Unit 4 context – Biochemistry)

| **Assessment type**  | **Assessment type weighting**  | **Assessment** **task** **weighting** | **When** | **Assessment task** |
| --- | --- | --- | --- | --- |
| Science inquiry/Practical/Investigation | 40% | 5% | Semester 1Week 3 | **Task 1:** Practical – Conduct an experiment to determine trends in the properties of hydrocarbons, including boiling points and viscosity |
| 5% | Semester 1Week 11 | **Task 4:** Practical – Conduct an experiment to identify saturated and unsaturated vegetable oils |
| 10% | Semester 1Week 13 | **Task 6:** Investigation – Conduct an experiment to determine the energy content of biofuels such as ethanol and vegetable oils using calorimetry, and preparation of report on experiment |
| 7.5% | Semester 2Week 2 | **Task 8:** Practical – Conduct an experiment to precipitate the milk protein casein and observe its enzyme treatment, and preparation of report on experiment |
| 5% | Semester 2Week 9 | **Task 11:** Practical – Comparing aerobic and anaerobic respiration |
| 7.5% | Semester 2Week 14 | **Task 13:** Investigation – Muscle fatigue is measured by carrying out an exercise over a timed period |
| Extended response | 20% | 10% | Semester 1Week 3 | **Task 2:** Comparing biofuels and hydrocarbon fuels from crude oil |
| 10% | Semester 2Week 8 | **Task 10:** Role of glycogen in the body |
| Test | 25% | 5% | Semester 1Week 5 | **Task 3:** Crude oil |
| 5% | Semester 1Week 12 | **Task 5:** Polymers and vegetable oils  |
| 5% | Semester 2Week 7 | **Task 9:** Proteins and Carbohydrates |
| 5% | Semester 2Week 11 | **Task 12:** During exercise – Cellular energy production and respiration |
| 5% | Semester 2Week 15 | **Task 14:** During exercise – Muscles and role of ions (electrolytes)  |
| Externally set task | 15% | 15% | Semester 1Week 14 | **Task 7:** A task set by the SCSA based on content from Unit 3 – <teacher to insert information provided by the Authority> |
| **Total** | **100%** | **100%** |  |  |