**Sample Assessment Outline**

Chemistry

General Year 12

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# 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 1  Week 3 | **Task 1:** Practical – Examining the properties of hydrocarbons, including boiling points and viscosity |
| 5% | Semester 1  Week 11 | **Task 4:** Practical – Identifying saturated and unsaturated vegetable oils |
| 10% | Semester 1  Week 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 2  Week 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 2  Week 9 | **Task 10:** Practical – Reactions of a set of metals and metal ion solutions to develop a metal activity series |
| 5% | Semester 2  Week 14 | **Task 13:** Practical – Factors that influence the rate of corrosion and methods of slowing corrosion |
| Extended response | 20% | 10% | Semester 1  Week 3 | **Task 2:** Comparing biofuels and hydrocarbon fuels from crude oil |
| 10% | Semester 2  Week 10 | **Task 12:** Extraction and refining of copper |
| Test | 25% | 5% | Semester 1  Week 5 | **Task 3:** Crude oil |
| 5% | Semester 1  Week 12 | **Task 5:** Polymers and vegetable oils |
| 5% | Semester 2  Week 6 | **Task 9:** Metal properties and structure and Alloys |
| 5% | Semester 2  Week 9 | **Task 11:** Metal reactions |
| 5% | Semester 2  Week 15 | **Task 14:** Metal extraction and Metal corrosion |
| Externally  set task | 15% | 15% | Semester 1  Week 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 1  Week 3 | **Task 1:** Practical – Conduct an experiment to determine trends in the properties of hydrocarbons, including boiling points and viscosity |
| 5% | Semester 1  Week 11 | **Task 4:** Practical – Conduct an experiment to identify saturated and unsaturated vegetable oils |
| 10% | Semester 1  Week 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 2  Week 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 2  Week 9 | **Task 11:** Practical – Comparing aerobic and anaerobic respiration |
| 7.5% | Semester 2  Week 14 | **Task 13:** Investigation – Muscle fatigue is measured by carrying out an exercise over a timed period |
| Extended response | 20% | 10% | Semester 1  Week 3 | **Task 2:** Comparing biofuels and hydrocarbon fuels from crude oil |
| 10% | Semester 2  Week 8 | **Task 10:** Role of glycogen in the body |
| Test | 25% | 5% | Semester 1  Week 5 | **Task 3:** Crude oil |
| 5% | Semester 1  Week 12 | **Task 5:** Polymers and vegetable oils |
| 5% | Semester 2  Week 7 | **Task 9:** Proteins and Carbohydrates |
| 5% | Semester 2  Week 11 | **Task 12:** During exercise – Cellular energy production and respiration |
| 5% | Semester 2  Week 15 | **Task 14:** During exercise – Muscles and role of ions (electrolytes) |
| Externally  set task | 15% | 15% | Semester 1  Week 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%** |  |  |