



SAMPLE ASSESSMENT OUTLINE

CHEMISTRY
GENERAL YEAR 12

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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 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% | | |