Time Allocation
This unit of work will consist of approximately 100 hours of which at least 50 hours will be class time. To complete this unit of work satisfactorily, students must complete each of the following learning outcomes.

Learning Outcomes

Outcome 1
The student should be able to relate the position of elements in the periodic table to their properties, investigate the structures and properties of metals and ionic compounds, and calculate mole quantities.

Outcome 2
The student should be able to investigate and explain the properties of carbon lattices and molecular substances with reference to their structures and bonding, use systematic nomenclature to name organic compounds, and explain how polymers can be designed for a purpose.

Outcome 3
The student should be able to investigate a question related to the development, use and/or modification of a selected material or chemical and communicate a substantiated response to the question.

Assessment Tasks

1  Practical activities and investigations requiring a written report in a specified style.
   Weighting:  This task is worth 20% of the overall grade.
   Due:  Throughout the semester

2  Topic Tests
   Weighting:  This task is worth 25% of the overall grade.
   Due:  Throughout the semester

3  Research Investigation (Outcome 3)
   Students will be required to investigate one aspect of the discoveries and research that have underpinned the development, use and modification of useful materials or chemicals.
   Weighting:  This task is worth 15% of the overall grade.
   Time allocated to task: 4 periods
   Due:  TBC

4  Semester Examination
   Weighting:  This task is worth 40% of the overall grade.
   Time allocated to task: 90 minutes
   Due:  Term 2, Week 8