### Unit Name

- **7 Rock never Dies**
- **8 Forensic Sciences**

### Main Ideas

- Sedimentary, igneous and metamorphic rocks contain minerals and are formed by processes that occur within Earth over a variety of timescales. Students recognise that rocks are a collection of different minerals and consider the knowledge and occupations involved in locating and extracting and processing mined minerals, followed by rehabilitation of the mined sites. They conduct an experiment which models the extraction processes for copper ore, and use the results to evaluate the methods involved.

- People use understanding and skills from across the disciplines of science in their occupation.
- Science and Technology contribute to finding solutions to a range of contemporary issues; these solutions may impact on other areas of society and involve ethical considerations. Students piece together evidence using various forensic techniques from a range of scientific disciplines, to construct a folio of evidence which is analysed and used to solve problems and mysteries.

### Duration (weeks)

6 (continued from Term 3)
6

### Assessment Item

- Practical report
- Assignment Folio of forensic activities

### Due Date

Wk 4 Wednesday 25th October
Wk 9 Wednesday 29th November

### Literacy Components

- **Speaking and Listening:**
- **Reading & Viewing:** Read the text
  - Interpret flow charts and diagrams
  - Interpret observations in practical activities
- **Writing & Designing:** Communicating practical activities in written format
  - Designing experiments to test certain scientific concepts

### Numeracy Components

- **Number:** Construct and analyse tables of data
- **Algebra:**
- **Measurement:** Gathering quantitative data
- **Space:**
- **Chance & Data:**

### ICT/Technology Components

- **Select and use ICTs in the processes of inquiry and research:** further revision of content covered in class and to improve performance on scientific report task.
- **Select and use ICTs to create a range of responses to suit the purpose and audience:** Oral presentation
- **Select and use ICTs to collaborate and enhance communication for an identified purpose and audience:** Oral presentation
- **Develop and apply ethical, safe and responsible practices when working with ICTs:** Research
- **Use a range of advanced ICT functions and applications:** Oral presentation