## Science Unit Overview

**Subject:** SCIENCE  
**Year:** 7  
**Term:** 4  
**Week:** 6

### Unit Title

**Planet Earth & the Solar System – 5 weeks**

### Aim

This unit provides students with opportunities to describe the dynamic nature of models, theories and laws in developing scientific understanding of the Earth and the Solar System. They explain how advances in scientific understanding influence the choices people make about resource use and management practices in shaping sustainable futures.

### What students will do:

- Identify the position of the sun, Earth and the moon linked with day and night
- Demonstrate how the position of the sun, Earth and the moon are linked with seasons
- Recognise the position of the sun, Earth and the moon linked with both the types of eclipses
- Create Models of the solar system (assessment task)
- Differentiate the Spheres of the Earth – Biosphere, Atmosphere, Lithosphere and Hydrosphere
- Describe Renewable and non-renewable resources
- Conserving and managing non-renewable resource (recycling – in Australian context)

### What students will learn:

- To use cause and effect relationships to explain ideas and findings – seasons, day and night
- Apply specific skills and rules relating to the safe use of scientific equipment
- Communicate – Oral presentation of the model of the Solar System
- To demonstrate Team work – group practical work
- Develop strategies and techniques for effective research using secondary sources, including use of the internet
- Literacy – sequencing steps, recording results and observations, drawing conclusions
- Numeracy - Interpreting tables
- Aboriginal – Aboriginal Bush Medicine

### What students will be assessed on:

- Providing students an opportunity to present to an identified audience (Display of the Solar System)
- Analysing the quality of student responses against criteria, including rubrics
- Observing students during learning activities and participation in a group activity (Collaborate in teams to safely carry out class practicals)
- Identifying data which provides evidence to support or negate the hypothesis under investigation (class practical work)
- Using digital technologies to access information and to communicate with others

### Essential Words

Season, tide, natural satellite, lunar and solar eclipses, renewable, non-renewable, communicate, analyse, models, hypothesis, biosphere, atmosphere, lithosphere, hydrosphere

### Homework:

Students are required to complete their comprehension and quiz based homework tasks once per fortnight.

### Grade Descriptors

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### Work Samples: 1

- Poster on water cycle