



*"Empowering Extraordinary Minds"*

# Overview

Year Level Flexible

## To the Moon and Back

Students explore the wonder of the night sky and learn about stars, constellations, planets and astrology through various cultural stories. Indigenous perspectives are strong through this program looking at how Aboriginal and Torres Strait Islander people use the night sky for navigation, agricultural purposes and ceremonies. Technology is incorporated through the use of iPads, telescopes and binoculars. This evening program can be run at our Centre or we can come to your school.

*\*This program typically runs for 2 hours with start and finish times negotiated between the school and BIEEC*

## Curriculum Intent

### Science

#### Science Understanding

**Year 1** - Observable changes occur in the sky and landscape ([ACSSU019](#))

**Year 3** - Earth's rotation on its axis causes regular changes, including night and day ([ACSSU048](#))

**Year 5** - The Earth is part of a system of planets orbiting around a star (the sun) ([ACSSU078](#))

Light from a source forms shadows and can be absorbed, reflected and refracted ([ACSSU080](#))

**Year 7** - Predictable phenomena on Earth, including seasons and eclipses, are caused by the relative positions of the sun, Earth and the moon ([ACSSU115](#))

**Year 10** - The universe contains features including galaxies, stars and solar systems, and the Big Bang theory can be used to explain the origin of the universe ([ACSSU188](#))

#### Science as a Human Endeavour

*Nature and development of science*

- Scientific knowledge is used to solve problems and inform personal and community decisions ([ACSHE100](#))

#### Science Inquiry Skills

- With guidance, pose clarifying questions and make predictions about scientific investigations ([AC SIS232](#))

#### General capabilities

- Literacy
- Numeracy
- Critical and Creative Thinking
- Information and Communication Technology (ICT) Capability

#### Cross-curriculum priorities

Aboriginal and Torres Strait Islander Histories and Cultures

*Country/Place*

- **OI.2** Aboriginal and Torres Strait Islander communities maintain a special connection to and responsibility for Country/Place.
- **OI.5** World views are formed by experiences at personal, local, national and global levels, and are linked to individual and community actions for sustainability.

*Culture*

- **OI.5** Aboriginal and Torres Strait Islander Peoples’ ways of life are uniquely expressed through ways of being, knowing, thinking and doing.

# Itinerary

**Learning Intentions:**

**WHAT... are we learning?**

- Facts about the night sky - planets, stars and constellations
- Use technology to observe the night sky
- Investigate how Indigenous people interpret the night sky

**WHY ... are we learning this?**

- Astronomy is an intriguing science that people have been studying for thousands of years. It is exciting to wonder what is in the night sky.

**HOW ... will you know you’re successful?**

- Discover facts about the night sky the ‘Go sky watch’ app on the ipads
- Adjust telescopes, binoculars & ipads to observe the night sky
- Listen to stories from different cultures about the night sky

**Students and adults will need:**

- Closed in shoes
- Protective clothing from insects / warm clothing if in the cooler months
- insect repellent already applied
- Water bottle
- We discourage torches as there is enough lighting provided.

**CARAs**

- Movement on uneven surfaces
- Science low

**\*Suggested Timetable of the night**

<b>EMPOWERING</b>	<b>TIME</b>	<b>ACTIVITIES</b>
	<b>7:00pm</b>	Arrival to centre – meet in Tucker Tent Centre Induction Lights off
	<b>7:15pm</b>	Commence rotations – Telescope Activity with astrology stories
	<b>7:45pm</b>	Ipad activity using the Go Sky Watch app with astrology stories
	<b>8:15pm</b>	Meet on the flat for NASA powerpoint presentation
	<b>8:30pm</b>	Completion of the program
*Denotes – activity taken by BIEEC staff with visiting school staff support # Denotes – activity taken by visiting school staff with BIEEC staff support + Denotes – activity taken by visiting school staff		

*\*Suggested timetable only and subject to change*