

Starlab 3: Astronomy

Specific Learning Objectives

Science

Nature of Science

Understanding about science Level 3-4

Investigating in science Level 3-4

Communicating in science Level 3-4

Participating and contributing Level 3-4

Planet Earth and Beyond

Astronomical systems Level 3-4

Key Competencies

Thinking, Relating to others, Using language symbols and texts, Participating and contributing, Managing self

Key Concepts	Specific Learning Intentions
	<i>By the end of the session, the students may be able to:</i>
Planet Earth has unique qualities that support life.	Describe some of Earth's unique qualities.
The Earth spins on its own axis. This makes the Sun, stars and planets appear to move across the sky.	Describe why the Sun, stars and planets appear to move across the sky.
There are eight planets in our Solar System including planet Earth. We can see some of them in the night sky.	Name at least two planets visible in the planetarium, and identify a feature of each one.
Different measurement units are used for distance in space.	Explain the difference between an astronomical unit (au) and a light year (ly)
Some stars can be grouped to form pictures called constellations.	Locate and Name at least three constellations.
The sunlight reflects off the Moon and the Moon orbits around the earth. This is how we see the different phases of the Moon.	Describe how we see the Moon in the sky and name two Moon phases.
The Milky Way Galaxy is a vast cloud of stars. We are part of the Milky Way Galaxy.	Locate the Milky Way Galaxy in the planetarium.