



## STAGE 2 PRESENTATION OUTLINE

Each presentation lasts for approx 40 - 60 minutes and includes 2 or 3 sections.  
Presentations can be customised to your student's level of learning.

### SECTION 1. PRESENTER-LED TALK.

We go on an interactive journey looking at our Planet, Solar System and Galaxy.  
Topics from;

- The rotation of the Earth.
- Night and Day.
- The Sun.
- The relationship between the Earth, Moon and Sun.
- Months & Years.
- Planets and their relative sizes.
- Movement of the Earth and the Sun.
- Orbit times & speed.

We also look at our place in Space, how big our Galaxy is, the Universe and our place within it.

Additional option...

- An age-appropriate presentation looking at the conservation of resources to address sustainability.  
eg turning off dripping taps, turning off unnecessary lights, reusing/recycling campaigns.

#### **\*Covers Stage 2 syllabus content.**

What occurs as a result of the interactions between the Earth and the Sun?

Identify the Sun as a major source of energy.

The Earth's rotation on its axis causes regular changes including night and day.

The relative sizes and movement of the Earth and the Sun.

Compare times for the Earth to orbit the Sun.

#### **\*Other elements of the Stage 2 syllabus are covered in our 360 movies.**

## SECTION 2 - 360° SURROUND MOVIE

We have several choices here. Choose your own or let us help you decide.

**'Tilt'** - <https://www.planetarium.com.au/tilt>

Tilt tells the story of Annie and Max as they work to save the Earth when the seasons start to go crazy. Their journey takes them into space and around the planet as they discover the axis of the Earth and our Orbit around the Sun directly impacts the way the world experiences seasons. Tilt also covers seasonal changes and shadows.

**'Stories In The Stars'** - <https://www.planetarium.com.au/stories-in-the-stars>

European night sky stories are familiar to many people. However, the stories indigenous to the southern skies are less well known. Although different Australian Aboriginal groups have different astronomical traditions, there are some broad similarities. Explore Indigenous Australian astronomy, and find out how indigenous cultures describe constellations that cannot be seen from northern latitudes. Even constellations that can be seen from Europe appear differently in the sky in the southern hemisphere.

**'Sizing Up Space'** - <https://www.planetarium.com.au/sizing-up-space>

How big is the distance between the Earth and the Sun - or between the Sun and the other planets? Discover the Light Year, the very large 'ruler' that scientists use to measure the size of Space. Be amazed by the ever-increasing distances to the nearest stars, to the edge of the Milky Way and to the farthest galaxies in the Universe.

**'Astronaut'** - <https://www.planetarium.com.au/astronaut>

The exploration of space is the greatest endeavour that humankind has ever undertaken. What does it take to be part of this incredible journey? What does it take to become an astronaut? Experience a rocket launch from inside the body of an astronaut. Explore the amazing worlds of inner and outer space, from floating around the International Space Station to manoeuvring through microscopic regions of the human body. Discover the perils that lurk in space as we subject Chad, our test astronaut, to everything that space has to throw at him.

**'Tycho Goes To Mars'** <https://www.planetarium.com.au/tycho-goes-to-mars>

Tycho, our favourite cheeky dog with a knack for getting into trouble, is finally blasting off to discover the red planet, Mars! Tycho is in search of water to fly his steam-powered space kennel back home. But how will he find water on Mars, when it looks so cold, dusty and dry? Perfect for Stage 1 & Stage 2 students.

**'The Great Solar System Adventure'** <https://www.planetarium.com.au/the-great-solar-system-adventure>

Join our showman extraordinaire on a death-defying journey to the planets. Explore the wonders and perils of our Solar System in this breathtaking immersive adventure. From the sun-scorched surface of Mercury to the icy expanses of Pluto and beyond, prepare to be subjected to the myriad dangers and wonders of our Solar System, on a breathtaking tour that reveals just how precious our home planet really is.

**'Minecraft: Worlds Of Curiosity'** <https://www.planetarium.com.au/worlds-of-curiosity>

Be curious! Based on the game Minecraft, explore the scientific consequences of alternative versions of Earth via "what if" questions.

'What would it be like to live on an Earth with no Moon?' 'What if Earth was tilted on its side (like Uranus)?'

**'Cosmix'** - <https://www.planetarium.com.au/cosmix>

Have you ever wondered how the astronauts do their job?

Find out what a space flight looks like and how to prepare for it.

Learn how to sleep in space, how to cook cosmic food, and discover the answer to the most intriguing question of all..... Just how do Astronauts go to the toilet in space?

After a visit to the Space Station, we experience a nerve-wracking return back to Earth in a red-hot spaceship cabin! Buckle up!

These 8 movies are our most popular for Stage 2, however, we also have a further selection of movies that may be suitable for your students depending on the topic and level of learning.

Find out more <https://www.planetarium.com.au/now-showing>

### SECTION 3. 360° SURROUND PRESENTER-LED TALK

#### 'What's In The Sky'

An interactive 360° look at what is in the sky today and tonight. True to life and in real-time.

Topics from;

- Aboriginal Astronomy and Stories.
- The motion and patterns of the Sun, Moon and Planets through the sky.
- Changes in the seasons.
- Day & night.
- Planets.
- Constellations & their mythology.
- The stars at night.
- The birth and death of stars.
- Southern Cross and Star navigation.
- The Milky Way.
- Questions and answers.

Feel free to ask for this presentation to focus on any particular topic. eg Aboriginal Astronomy and stories.

**\*Covers Stage 2 syllabus content.**

What occurs as a result of the interactions between the Earth and the Sun?

Identify the Sun as a major source of energy.

The Earth's rotation on its axis causes regular changes including night and day.

Please note that all presentations are subject to change and variation due to circumstances and/or time restrictions.