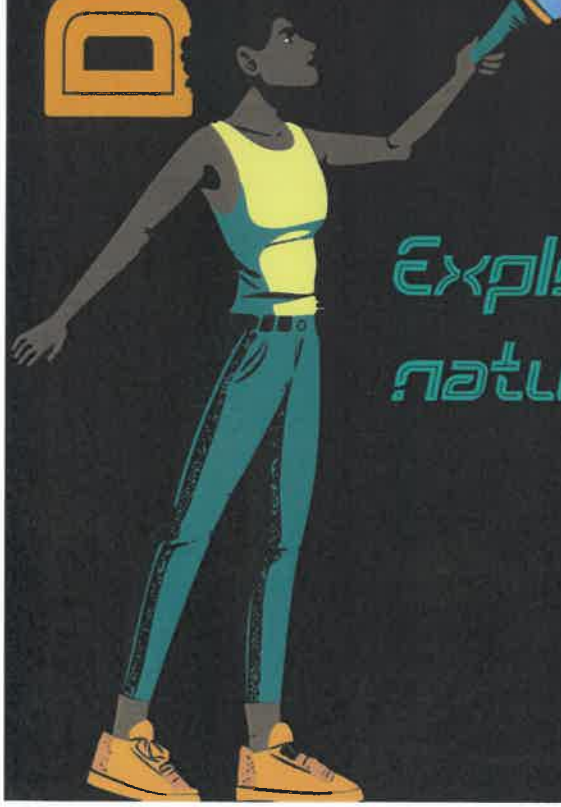
DECODING THE UNIVERSE

national science week 2025

9 - 17 AUGUST



Exploring the unknown with nature's hidden language

AUSTRALIAN SCIENCE TEACHERS ASSOCIATION

An Australian Government Initiative

Inspiring AUSTRALIA

2025 NATIONAL SCIENCE WEEK at ROSARY

It is National Science Week around the country this week and it was launched at Rosary today (Thursday). All students are invited to take part in completing some work for Science Week, but it is not compulsory. It's for those who love Science! The students do their work or project at home because they love Science and STEM and then we will display their work at school. Last year about 70 students presented awesome projects on the theme of *'Endangered Species.'*

The 2025 theme is a bit more complex - *'Decoding the Universe - Exploring the unknown with nature's hidden language.'*

However, when the theme is unpacked it opens a lot of possibilities for students to explore. **It's all about unpacking the mysteries of the universe!** The focus is also on Quantum Science and the use of physics, mathematics and STEM in nature's equations.

For students they can really study any mystery or part of nature in the universe (anything in the world or space.) It's about looking for small things like patterns, waves, colours, combinations, particles, atoms, interactions between matter or substances, light, gases, electricity - almost everything that works, grows or happens in our universe. **This is a chance for students to find out WHY something is like it is or HOW it happens.**

The National Science Week resource pack has ideas about plants, flowers, animals, wave lengths, particles, rocks, minerals, weather, the solar system, gases (you know the ones I mean!), shadows, decoding DNA etc.,

So many things we take for granted today like iPads, Computers, MRI machines, Digital Cameras LED lights, forensic science, medicine, lasers, phones, communication etc.

Students are encouraged to study something in the universe and see how it works and look at the patterns and the science and mathematics behind it. What can we understand and learn from these phenomena? Explore something small that we find in nature or something big cosmos in the universe! First nation cultures have used traditional knowledge systems gained by observing the land and sky, by recognising patterns and through decoding meaning.

You research something, make a poster, design an experiment, or showcase how something looks or works.

We will make the due date for the projects the end of Week 8 on Friday 12 September.