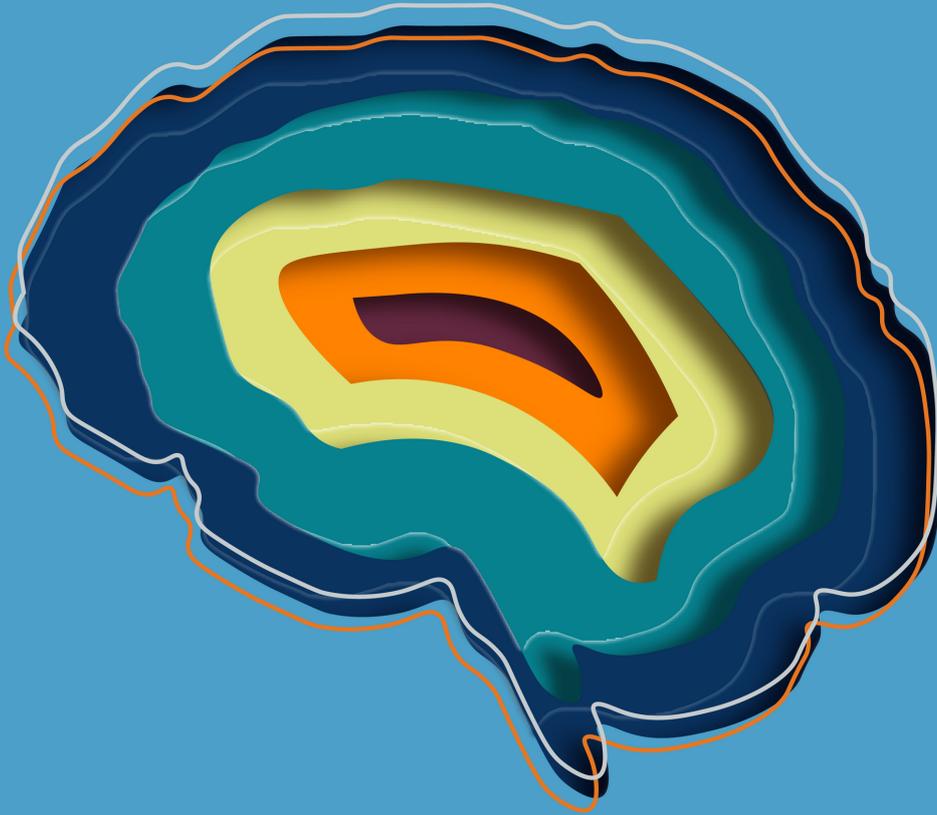




scinapse

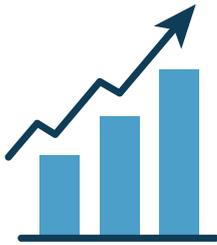


*A Science Engagement  
Program for Year 9-10*

# OUR VISION

There is a growing decline of interest in STEM, especially in younger communities who are discouraged by content-driven learning and the influences of society and the media. This presents a challenge for educators as they attempt to engage students with new and fun activities which excite student's passion.

This is where scinapse can help.



**STEM roles are in high demand and are expected to grow to nearly 9 million by 2022.**



**The number of students studying STEM has flat-lined at around 10% or less.**



**Disparities in STEM education are pronounced in under-resourced & low SES secondary schools.**

Developed in collaboration with the Science Advisor for the Secondary Curriculum and the High Potential and Gifted Education Team at the NSW Department of Education, Scinapse provides state-wide educational workshops tailored towards high school students with the goal of reinvigorating their interest in science. Our programs are led by young passionate university students from diverse science backgrounds, who incorporate evidence-based teaching strategies to maximise the retention of critical "soft skills", relevant to any industry.

**Problem-Solving**

**Teamwork**

**Communication**



**scinapse**

**Critical thinking**

**Scientific Literacy**

**Engagement**

Our approach places key focus on providing innovative and relevant practical experiences for those of low socioeconomic status, rural, or Aboriginal and Torres Strait Islander backgrounds, or are of female sex.

We strive to break down the misconception of science as a discipline of facts and formulae, but as a tool that can be applied in all areas of our lives.

# RE-INTRODUCTION TO SCIENCE

Our flagship program tackles the biggest myth in science - "This stuff will never be useful."



*Four 90-minute workshops*

*Suitable for classrooms of all sizes and streams*

*Delivered by trained undergraduate facilitators*

*Aligns with the Science Syllabus*



We utilise **student-led experiential learning** to explore topics such as Artificial Intelligence, pseudoscience, ethics, neuroscience, and contextualises the scientific method to everyday life.

We employ a modular structure to guide students to their **Zone of Proximal Development**, making the program accessible for all skill levels. Students also gain access to our **Alumni program** for ongoing high-school and career mentoring from our facilitators, with opportunities for free workshops and events.

## Workshop 1: By Hook or By Crook

Students apply skepticism to tackle misinformation on the internet by:

- Debunking popular myths using skepticism.
- Exploring the ethical dilemmas associated with misinformation.
- Discussing various STEM degrees and the importance of social impact.

## Workshop 2: The Method of Madness

Students apply this skepticism via a multitude of engaging activities by:

- Recognising the various forms of scientific communication in media.
- Analysing the characteristics of the scientific method.
- A fresh perspective on data interpretation.

## Workshop 3: Potential of Neuro

Through neuroscience, and artificial intelligence, students will:

- Appreciate the diversity of technology in STEM.
- Make their own models to understand neurological disorders.
- Discuss the ethicalities of famous experiments throughout history.

## Workshop 4: Hot off the Petri Dish

Using relevant examples in popular science and culture, students will explore:

- Two important skills for effective discussion.
- The importance of scientific literacy in this day and age.
- Misrepresentation of science in media through marketing.

# FORAY INTO NEUROSCIENCE

Using neuroscience and psychology as a conduit for multidisciplinary learning in STEMM, our one-off workshop explores technologies such as electroencephalography and artificial intelligence, and challenges students to reflect on the societal consequences of the scientific process.

**Single 90-minute workshop**  
**Suitable for classrooms of up to 30 students**

**Workbook included**

In November of 2020, we ran a pilot program to a group of 30 high school students. This session focused predominantly on neuroscience as a conduit to delve into science. To get some feedback on the program, we included a reflection station where students were asked to anonymously critique the day. Here are some of their responses...



"I learned the scientific method at school but it was good to apply it practically. These skills will come in handy especially in year 11 & 12 depth study."

**Helen**  
**Yr 10 student**

"This workshop has sparked an interest in neuroscience, especially neurotransmitters and how they affect the body and assist with function."

**Justin**  
**Yr 10 student**



# BOOK A MEETING WITH US

1

## Meet With Us!

After contacting scinapse, we schedule a meeting to discuss your needs and how we can tailor the workshops around the school's schedule. We offer flexible options to blend in with the students workload and class times.

2

## Get a Quote

Following the meeting, scinapse provides your school with all the necessary documents to book the program.

- Risk Assessment
- COVID-19 Safety Plan
- Science Syllabus Links
- Working with Children & Police Checks



Scinapse is not-for-profit and all our fees go into improving the programs or to fund scholarships to deliver programs to under-resourced schools. Contact our team members to find out more about our pricing.

3

## Event Confirmation

Once dates are confirmed, a confirmation letter is sent with all the key information. Closer to the date, we will confirm the facilitators.

4

## Your Feedback Matters!

After the workshops, Scinapse will have a brief meeting to discuss feedback to continuously strive to improve the quality of our teaching to give the students nothing but the highest quality, for one of the lowest prices.

Our programs are designed with the school and their students in mind. We can gladly accommodate any timetabling concerns or minor content modifications upon enquiry.

---

# SCIENCE IS A LIFESTYLE

Give your students the chance to explore STEM  
and beyond. Be part of the fun and book an  
appointment with us today!



[@www.linkedin.com/company/scinapse-stem](https://www.linkedin.com/company/scinapse-stem)



[@ www.YNA.org.au/scinapse](http://www.YNA.org.au/scinapse)

---