

## CO2 DRAGSTERS



**Overview:** The CO2 Dragsters Program provides students a means to demonstrate their ability to use Design Make Appraise (DMA) principles to design, draw and then build a dragster within a set of specifications. Using design and technology principles, this program aims to develop confidence as critical users of technologies and produce solutions suitable for a range of technologies by selecting a manipulating a range of tools, equipment, materials and components creatively, competently and safely.

Students are encouraged to research design features that will make their vehicle more efficient. Their cars are then tested on a 20 metre track for speed to determine the fastest dragster.

**ACARA Links:** Analyse how force, motion and energy are used to manipulate and control engineered systems. (AC9TDE8K03)

Analyse needs or opportunities for designing, and investigate and select materials, components, tools, equipment and processes to create designed solutions. (AC9TDE8P01)



## ORGANISATION



Year 5 students will attend Sarina State High School four half days over four fortnights in Term 3 and 4 of Year 5 and then will return in Term 1 of Year 6 in 2026.

### Term 3 2025

Term 3 - Week 3 ~ 1st August

Term 3 - Week 5 ~ 15th August

Term 3 - Week 7 ~ 29th August

Term 3 - Week 9 ~ 12th September

### Term 4 2025 - Dates TBC

## APPLICATION PROCESS

To be considered for the SEI, students will be required to complete an application form which will expect students to:

- ⇒ Outline their latest report card results
- ⇒ Attendance percentage
- ⇒ Meet specific criteria
- ⇒ Complete a written short response
- ⇒ Preference programs 1 - 3
- ⇒ Have Principal and Parent/Carer approval

**Please note: The Sarina Erudite Initiative is capped and students who do not meet the criteria may not be successful.**



# Sarina Erudite Initiative



## RATIONALE



The Sarina Erudite Initiative (SEI) is an enrichment program aiming to expose primary school students to the secondary curriculum and extend students, whilst

allowing them to develop further interests and skills.

According to the Department of Education and Training – Students who are high performing *'are entitled to a curriculum provided at the pace, degree of abstraction and complexity and level that is consistent with their abilities – enabling them to become confident, independent learners who achieve to their potential.'* The Sarina Erudite Initiative aims to cater for these students.

Sarina Erudite Initiate Programs will be linked to the areas of Humanities, Design Technologies and Health and Physical Education. The SEI Programs will also align to ACARA General Capabilities and Achievement Standards.

### Criteria:

- ⇒ Students should be able to demonstrate an high level of literacy and numeracy.
- ⇒ Achieve a 'C Standard' or above in all core subjects.
- ⇒ Display excellent behaviour and effort in all educational pursuits.
- ⇒ Ability to engage in self-directed autonomous learning.

## INITIATIVE PROGRAMS

### STEM DEVICES

**Overview:** Students will design and develop a solution that can be printed using a 3D printer plus have the opportunity to program a route around an obstacle course using flying drones. Please bring a device (preferably an iPad) if you have your own.

**ACARA Links:** Select and use a range of digital tools efficiently, including unfamiliar features, to create, locate and communicate content, consistently applying common conventions. (AC9TDI8P11)

Generate, test, iterate and communicate design ideas, processes and solutions using technical terms and graphical representation techniques, including using digital tools. (AC9TDE8P02)

### HEALTH AND PHYSICAL EDUCATION

**Overview:** Students will be exposed to key theoretical and practical concepts of Health and Physical Education.

Theoretical (70 mins)	Practical (70 mins)
Nutrition Nuts <i>Energy in Vs Energy Out</i>	Invasion Games
Nutrition Nuts <i>Nutritious Snacks</i>	Striking & Fielding
Nutrition Nuts <i>Food for Growth</i>	Volleyball (Newcomb Ball)
Nutrition Nuts <i>Healthy Choices</i>	Touch Football

**ACARA Links:** Participate in physical activities designed to improve fitness and wellbeing to investigate the impact of regular participation on health, fitness and wellbeing. (AC9HP8M04)

Practice and apply leadership, collaboration and group decision-making processes when participating in a range of physical activities. (AC9HP8M09)

### CREATION STATION

**Overview:** Students will delve into the world of creative narrative and poetry writing—whether they are dreaming up fantastical adventures or experimenting with emotive, descriptive and figurative language, activating the six senses through their writing.

Students will gain confidence in crafting imaginative stories and creative poems, constructing compelling characters, and expressing emotions through powerful poetic language and literary devices.

**ACARA Links:** Create and edit literary texts that experiment with language features and literary devices encountered in texts. (AC9E7LE07)

Plan, create, edit and publish written and multimodal texts, selecting subject matter, and using text structures, language features, literary devices and visual features to convey ideas and opinions imaginatively. (AC9E7LY06)

### ENCHANTING EGYPTIANS

**Overview:** Students will inquire into the enchanting lives of the Ancient Egyptians, hypothesising and synthesising pyramids, Funerary Practices and popular personalities.

**ACARA Links:** Develop historical questions about the past to inform historical inquiry (AC9HH7S01)

Key beliefs, values and practices of an ancient society, with a particular emphasis on one of the following areas: everyday life, warfare, or death and funerary customs. (AC9HH7K11)