



BY STUDENTS
FOR STUDENTS



LAUNCH Pulse Conference

2025 PROGRAM INFORMATION

Launch 2025



About Launch

Launch is a student-led STEAM program (Science, Technology, Engineering, Arts, and Mathematics) held at The Gap State High School in Brisbane, hosting various activities and events throughout the year. We invite students from other Metropolitan Queensland schools to attend our workshops ranging from robotics to building artistic masterpieces.

Launch *Pulse* Conference 2025

The upcoming Launch Pulse Conference is designed to ignite a passion for health, wellbeing, and innovation in recreation within our school community and beyond. Our mission is clear: it's time to pulse forward — rethinking how we approach personal and community health through the power of STEAM and emerging technologies.

Why health and recreation? Because they are essential to a thriving, balanced life. From physical fitness to mental wellbeing and social connection, recreational activities — supported by smart design and technology — play a crucial role in shaping resilient, healthy communities. By engaging with these ideas, students take ownership of their own wellbeing while contributing to more inclusive, active, and connected societies.

Within our school, we promote engagement with health and recreation innovation through a variety of initiatives, including wellness campaigns, creative STEAM projects, and partnerships with local health and community organizations. By embedding these themes into our curriculum and extracurricular activities, we empower students to explore how science, technology, and design can enhance everything from daily movement to emotional wellbeing.



The Details



The Gap State High School, Queensland



5th of September 2025



8:30am – 4:30pm (Minor Change May Occur)



Grades 5 -12



\$ 70 per student (Early Bird \$55 until 28th of July)

What's Included



Afternoon Tea



Launch Conference Product bag



You can keep your work in some workshops



Keynote Presentation



3 Workshops of your interest



Real-World Problem-Solving Activity

What people have to say about Launch

"It was a lot of fun; I can't wait till next year!"

"I came for one workshop, but I loved all of them"



Things you need to know

- Parents are responsible for pick-up and drop-off of students.
- Launch Conference is only available to students in grades 5-12
- Students may bring their own device if they wish, however not required.
- All participants must purchase a ticket, complete the Launch permission form, and media release form.
- Tickets are limited
- All tickets are due by 1st September 2025 at 3:30pm



Workshop Information Key

Display Image



Workshop Name

Drones

Want to fly a drone? We need your help to program a drone to fly through an obstacle course to deliver a customer's order! Are you up to the challenge?

CODING – LOGIC – ROBOTICS

Categories

Workshop Info



Difficulty Rating



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Workshops



Gliders

Build it, tweak it, fly it! Learn about how flight works, then team up to design and launch your own glider. See how far you can make it fly!

ENGINEERING – AERODYNAMICS – HANDS-ON

Difficulty



Cricut

Use Cricut machines to make your own custom vinyl sticker. Learn the software, get creative, and make something unique to take home.

DESIGN – TECHNOLOGY – CRAFT

Difficulty

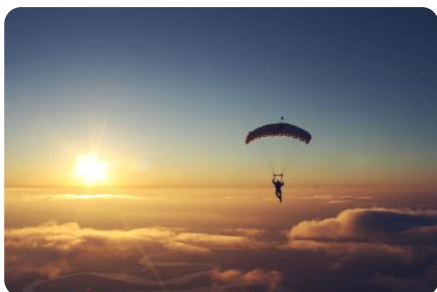


Health Emergency: Drones

Pilot a drone through a rescue course—then code it to fly the same path on its own. Can your drone deliver in a crisis?

ROBOTICS – CODING – FLIGHT

Difficulty



Parachutes

Design, build, and test your own parachute to learn how factors like shape and material affect its descent.

PHYSICS – AERODYNAMICS – TESTING

Difficulty



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AutoCAD

Learn the basics of AutoCAD to design your own logo, then watch it come to life as a laser-cut keyring!

CAD DESIGN – ENGINEERING – CREATIVE

Difficulty



Rocket Chemistry

Explore how rockets work through hands-on experiments with fuel mixtures and nozzles to understand real propulsion physics.

CHEMISTRY – PHYSICS – ENGINEERING

Difficulty



Health: Biology

Discover how biology shapes your everyday health and wellbeing through the hidden science behind how your body works.

Difficulty



BIOLOGY – ANALYSING – HEALTH

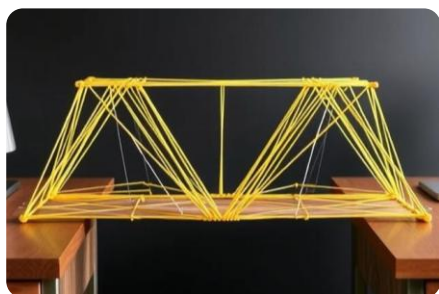


Sam Labs

Interested in coding and making? Use Sam Labs to build your own contraptions using simple logic code.

CODING – LOGIC – MAKING

Difficulty



Pasta Bridge

Pasta bridge building to the max! Use your engineering skills to build the strongest bridge!

ENGINEERING – PASTA - CREATIVE

Difficulty



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RC Drift Cars

Love to race? Enjoy 70 minutes of drift cars. Understand the basics of how to drift cars work and get to take the cars out for a spin. Literally!

Difficulty



CARS – DRIFT – ELECTONICS



Health: EV3 Delivery Mission

Explore the world of robotics with our LEGO EV3 Delivery Mission, where students design and program robots to tackle real-world challenges like contactless delivery.

Difficulty



ROBOTICS – CODING – ENGINEERING



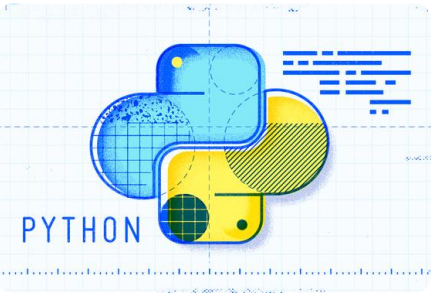
Digital Music Production

Students will get the opportunity to recreate a music icon with over half a billion views on YouTube and Spotify, focusing on important music production skills such as mixing.

Difficulty



CREATIVE – MUSIC - TECHNOLOGY



Python

Learn the fundamentals of Python programming through fun, hands-on coding exercises—perfect for total beginners!

Difficulty



CODING – BEGINNER – PYTHON



Mini Catapults

Build popsicle catapults, explore physics principles, then compete for maximum launch distance and power!

Difficulty



ENGINEERING – PHYSICS – COMPETITION

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Health: Nutrition

Explore essential nutrients, uncover their food sources, and learn why they're vital for a healthy body.

NUTRITION – HEALTH – WELLNESS

Difficulty

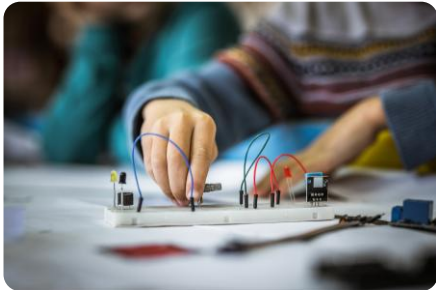


Jewellery Making

Use the Jewellery making kits to customize, design and make your very own jewellery that you can keep for yourself or give a friend or family member.

ART – CRAFT - CREATIVE

Difficulty



Health: Arduino – Heart Rate Monitor

Build and code your own heart rate monitor while discovering how electronics help track and improve health.

ELECTRONICS – CODING – HEALTH TECH

Difficulty



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Interested in attending?

Don't miss out on your opportunity

REGISTER NOW



**OR
CONTACT US ABOUT OUR OTHER
PROGRAMS**

LAUNCH+

**LAUNCH
PAD**

**COMMUNITY
CLUBS**

Have a question?
launch@thegapshs.eq.edu.au





LAUNCH Pulse CONFERENCE 2025
THE GAP STATE HIGH SCHOOL