



LAUNCH ENERGY CONFERENCE

2024 PROGRAM INFORMATION

Launch 2024



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 Energy Conference 2024

The upcoming Launch Energy Conference seeks to ignite a passion for sustainability and innovation within our school community and beyond. Our message is clear: it's time to power change, both locally and globally. Why energy? Why sustainability? Because they are the lifeblood of our future, shaping the world we will inherit. By engaging with these concepts, we not only embrace responsibility but also seize the opportunity to craft a brighter, more sustainable tomorrow.

Within our school community, we foster engagement with energy and sustainability through dynamic initiatives, from awareness campaigns to hands-on projects. Through curriculum integration, extracurricular activities, and partnerships with local organizations, we empower students to become active participants in the energy transition.

What makes our conference unique? It's not just about learning; it's about doing. From interactive workshops to collaborative challenges, we provide a platform for students to apply their skills and creativity to real-world problems. Moreover, our focus extends beyond our school walls, as we seek to make a tangible impact on communities both locally and globally. This year, our theme is "Empowerment," reflecting our commitment to equipping students with the knowledge, skills, and resources to drive positive change. Join us as we harness the power of education to shape a more sustainable future for all.



LAUNCH 2024

Launch Energy Conference

Jonty's Eco- Forum

In this information package, we delve into the details of our Student Led Conference –an integral part of our event series, "Empowering Innovations for a Sustainable Future." Join us on August 30th as we explore the power of STEAM. For more information about our Expo, STEAM breakfast, and Jonty's Eco Forum, please reach out to launch@thegapshs.eq.edu.au. Join us on this journey of connection, innovation, and contributions to a sustainable future.

The Details



The Gap State High School, Queensland



30th August 2024



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



Grades 5 -12



\$ 70 per student

What's Included



Afternoon Tea (please bring your own lunch)



Launch Conference Product bag



You can keep your product in some workshops



Keynote Presentation



3 Workshops of your interest



Real-World Problem-Solving STEAM Challenge

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
- All participants must purchase a ticket, complete the Launch permission form, and media release form.
- Tickets are limited
- All tickets are due by 22nd of August 2024 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



Workshops



Agricultural Science

Students will visit our Community Garden and conduct experiments involving foreign debris in soil, pH testing, and its effect on cereal crops such as barley.

Difficulty



BIOLOGY – CHEMISTRY – AGRICULTURE



AutoCAD

Students will get to make their very own logo using the CAD design software, AutoCAD. Once their logo is complete, they'll be able to get it laser cut.

Difficulty



CAD DESIGN – ENGINEERING - CREATIVE



Biology

Students will get the opportunity to use microscopes as we look at a number of plants, insects and other organisms.

Difficulty



BIOLOGY – ORGANISMS – ANALYSING



Blender Sunrise

Do you enjoy 3D modelling? Well come along to this workshop and learn how to use Blender so you can make your own sunrise

Difficulty



3D MODELLING – TECHNOLOGY - CREATIVE

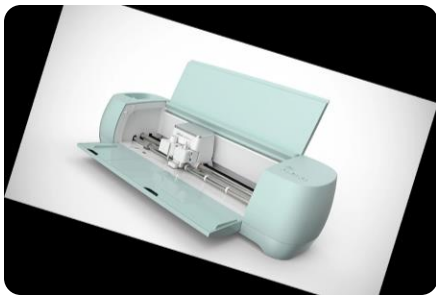
*Workshops are subject to change. If any changes occur anyone who has already purchased a ticket will be notified and be given the opportunity to change their selection if they wish to. Images displayed are not necessarily related to content covered or activity and are only for illustrative purposes.



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Cricut Sticker Making

Express your creativity with the Cricut workshop. Come make stickers using the Cricut machine

CREATIVE – ART – SEWING

Difficulty
●●●●●



Chemistry

Mix things together in the chemistry workshop to create something new. Take home your own product and learn the basics of chemistry

CHEMISTRY – SCIENCE – CREATING

Difficulty
●●●●●



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

Difficulty
●●●●●



Understanding Electrical Energy

Learn the complete basics of electronics as you get to build your very own little project. No coding, just pure electrical hardware!

ELECTRONICS – BUILDING – LOGIC

Difficulty
●●●●●



LEGO EV3 Mindstorms

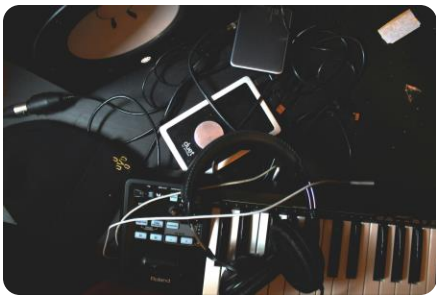
Unleash the power of LEGO! As a team, students will be able to build a custom EV3 robot to navigate a nuclear warzone, full of radiation. Better be quick, people are counting on you!

ROBOTICS – CODING - LOGIC

Difficulty
●●●●●

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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.

CREATIVE – MUSIC - TECHNOLOGY

Difficulty
●●●●●



Energy – Aviation

Focuses on forces needed to make a plane fly. Students get to design and build their own plane whilst devising ideas for sustainable aviation for future transport.

ENGINEERING – CREATIVE – AVIATION

Difficulty
●●●●●



Sam Labs

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

CODING – LOGIC – MAKING

Difficulty
●●●●●



Solar Energy Challenge

Renewable energy is the way to the future and so is this workshop. Come build your very own solar-powered contraption!

ENERGY – ELECTRONICS – MAKING

Difficulty
●●●●●



Australian Water Colours Leaves

Students will get to make their own painting using the water colours. Using a variety of techniques, they will create an illustration of Australian leaves.

ART – CREATIVITY – NATURE

Difficulty
●●●●●

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Energy - Mars Explorer

Students build a rubber powered rover and learn about planning, launching and landing a space craft on mars.

EDUCATION – HUMANITIES – CONNECTION

Difficulty



Energy – Solar Buddies - Tech that Lights Futures

Help build a Solar light that will be sent to developing countries, counteracting and educating on energy

EDUCATION – HUMANITIES – CONNECTION

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



Energy Rockets Chemistry

Using tablets and a film canister to create energy transfer reactions, allowing students to divulge in chemical energy.

SCIENCE – CHEMISTRY - ENERGY

Difficulty



Party Balloon Animals

Come share your artistic flair. Walk away with your own Balloon animal as well as learning a little bit about the science behind balloons.

BALLONS – SCIENCE - CREATIVE

Difficulty



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RC Cars

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

CARS – DRIFT – ELECTONICS

Difficulty



Energy – Make a Battery

Make a battery from different fruit and test which produces the greatest potential energy. We will discover the how two metals suspended in an acidic solution can power a LED. Can you make one run an electric motor.

CHEMISTRY – BATTERY – ELECTONICS

Difficulty



REGISTER NOW



OR CONTACT US ABOUT OUR OTHER PROGRAMS

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PAD**

**COMMUNITY
CLUBS**

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





**LAUNCH ENERGY CONFERENCE 2024
THE GAP STATE HIGH SCHOOL**