Golden Opportunity
Experiential Learning Day
Digital Technologies

Hosted by Corinda State High School 2019

WHAT:

Students will become tech pioneers when they learn how to code their very own micro:bit! Students will discover how these ingenious devices can inspire creativity and refine the computational thinking skills needed in a tech world. They will engage in three projects on the day that will challenge their problem-solving skills and flame their love of coding.

To bring this excitement home, the students will be given their very own micro:bit, a 3D printed protector case and some projects to help extend and further develop their love of coding!

WHO: Open to any interested Year 5 / 6 students

WHEN: Wednesday 13 March 2019
Registration between 8:45 am- 9 am
8:45 am to 2.30 pm

WHERE: Corinda State High School
46 Pratten Street, Corinda 4075

COST: **$ 30.00**

BRING: Morning tea and lunch, hat, water, sun cream

RSVP: Wednesday 27 February (numbers strictly limited)

CONTACT: Bree Hackett, Gifted and Talented Coordinator, Corinda State High School
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Exceed Your Expectations

Tech Pioneers!

What is a micro:bit?

Micro:bits are pocket-sized, codeable computers packed with all sorts of cool features. It has an ARM-built processor, a motion sensor, built-in compass, USB port, 25 LED lights, buttons, and Bluetooth technology. So, the micro:bit can be used to create all sorts of fun and exciting projects!

What are the educational benefits of this program?

1. Boost engagement

With endless possibilities when it comes to what it can be used for, the whole purpose of the micro:bit is to inspire higher levels of engagement and creativity in a new generation of young people.

2. Prepare pupils for employment

Making learning with technology fun, the easy to use micro:bit encourages students to engage with STEM subjects, boosting their future employability.

3. Applicable across education levels

The simplicity and versatility of the micro:bit makes it an easy, fun starting point for early years digital engagement. But the more you hack, the more you can do. So it's also a powerful tool for more advanced coders, designers, artists, scientists, and engineers.

4. Boost computational thinking across the curriculum

When it comes to the educational benefits of the micro:bit, its not always about programming. The device can also be used to instil computational thinking, enhanced learning, and problem solving across disciplines. These skills are vital when it comes to giving students the tools they need to thrive in our emerging and complete economy

5. Boost learning and retention

Students learn best when they are immersed in learning, and this is achieved through interaction and application. With the micro:bit, pupils can get hands on and switch from being consumers of digital information to designers and creators. Such active learning also ensures that they retain information with greater ease.

Adapted from https://resourced.prometheanworld.com/use-microbits-teaching-learning/

What do the students get to take home?

Students will be given their own micro:bit to take home and keep their learning going beyond the day. They will also be given a 3D printed monster case and a plain micro:bit case to keep their new learning device safe. Furthermore, students will be provided with a number of extension projects that they can take home and try themselves!

Outline of the day

Time	Activity
8:45 - 9:00	**Registration**
9:00 - 9:15	Welcome and handout of micro:bit packs
9:15 – 10:15	**Project 1** ***The Monster Project*** Learn how to program your micro:bit to be a happy or sad monster. Use your 3D printed monster case to bring it to life!
10:15- 10:45	Morning Tea
10:45 – 11:40	**Project 2** **Coin Flipper** Don't use your loose change to make a decision, use your micro:bit! Code your micro:bit to flip *heads* or *tails* and use it to in a probability activity
11:40 – 12:10	Lunch
12:10 – 2:30	**Project 3** **Paper, scissors, rock** Modernise the traditional game of *Paper, scissors, rock* using your micro:bit! This project will be a challenge as you learn the complexities of coding
2:30	Students collected and signed out

Courtesy Cooperation Commitment

REGISTRATION FORM: GOLDEN OPPORTUNITY DAY: Digital Technologies: 13 March 2019

Child's name: _____ Date of Birth: _____

Year Level in 2019_____ Male/ Female: _____

Your Child's School: _____

Parents' Names: _____

Address: _____

Mobile: _____ e-mail: _____

Does your child have any ongoing medical condition? YES / NO
Please specify:
_____

Emergency contact: _____Phone:_____

Medicare No: _____Medical Cover: _____

Emergency medication carried by your child: _____

In an emergency, if medical assistance is needed for my child, I assent to Corinda State High School taking whatever steps necessary.

I understand that photographs and video recordings may be taken of the group, to be used in Corinda State High School media.

Corinda State High School agree that no names will be mentioned in any resulting publication.

I understand that, if any student's behaviour is disruptive, interfering with other participants' ability to fully benefit from program participation, his/her parents will be contacted, and he/she may be removed from the program. I understand that, once enrolment applications have been confirmed and payment is made there will be no refunds.

Parent Name: _____Date:_____

Parent Signature: _____

Please scan and email to bhack17@eq.edu.au or post to: Bree Hackett, Corinda State High School, 46 Pratten St, Corinda 4075

You will be notified by email if registration has been received.

Payments can be made to the payments office either on the morning of event or in advance. The payments office is located upstairs near Administration (entry from Pratten Street and is open from 8:00 am – 1:30 pm on school days.

Registration can alternatively be made using the SkoolBag App and adding Corinda State High School

SkoolBag