STEM Wana events, Kati Kati & Te Puke

STEM Wana Trust is a charity with a mission to promote awareness of opportunities in STEM (Science, Technology, Engineering and Mathematics) to young people. We want to help and encourage our tamariki and rangatahi to explore all STEM fields. We do this by creating opportunities for hands-on learning and experiences in a fun inspiring environment.

This year we are excited to be launching a new community based series of events designed to bring STEM to tamariki in schools and kura in the Bay of Plenty - STEM in the Community project.

During the week of the 30th August to 5th September we will be organising morning and afternoon sessions at different locations across the region, to involve tauira in STEM activities. Sessions are suitable for tamariki aged between 8 and 12.

**KATIKATI EVENT**
**DATE:**MONDAY, 30TH AUGUST
**TIMES:** MORNING SESSION 10am - 12pm

 AFTERNOON SESSION 12.30pm- 2.30pm (10 places left)

Students are attending either the morning or the afternoon session. 10 places left.
**VENUE:**The Digital Hub right at the Katikati Library
**ACTIVITIES:**

GROUP ONE - Tauira will be learning a coding activity on a programme designed by Cucumber - a local innovative tech company. The programme is adaptable and able to challenge experienced coders as well as support and inspire new coders.

GROUP TWO - Tamariki will take part in a science Egg drop challenge designed by STEM Wana Trust to build teamwork and encourage creative problem solving.

After 45-50min the groups will swap.

**TE PUKE EVENT**
**DATE:**TUESDAY, 31ST AUGUST
**TIMES:** MORNING SESSION 10am - 12pm (30 places left)

 AFTERNOON SESSION 12.30pm- 2.30pm

Students are attending either the morning or the afternoon session.
**VENUE:**Te Puke War Memorial Hall
**ACTIVITIES:**School to Skies (School outreach programme from Royal New
Zealand Air Force) will be running these 4 activities in small groups of 12-15 students. After 25-30min the groups will swap.
GRUMMAN AIRCRAFT - students go through the cockpit of an actual aircraft and carry out two maintenance jobs on the aircraft.
PRINCIPLES OF FLIGHT WORKSHOP - students will learn how a plane flies, the four forces acting on an aircraft and the three primary control surfaces, this is an interactive and hands on workshop.
BUILDING HELICOPTERS - hands on activity where the students can make a paper helicopter, discuss the principles of flight and how it is different to an aircraft.
21ST CENTURY SKILLS LESSON - STEM Mega Memory. A traditional game of mega memory with a STEM flare. Students can learn the fundamentals of working together as a team, why it is important and how teamwork is integral to our working environment.

Register your ihnterest here <https://docs.google.com/forms/d/e/1FAIpQLSfuiVnSdZmJzMv18V8Kuvl6Xv5rQSlQ1tY_BV-XhX7B7FTlZQ/viewform>

WEDNESDAY 1ST SEPTEMBER - Whakatane, Toi Ohomai Campus

Content: School to Skies - Air Force flight workshop

No more details – workshops full.

**THURSDAY 2ND SEPTEMBER - Morrinsville**, Morrinsville Library
Morning session: 10am-12pm. (10 places left in morning session)

Afternoon session: 12:30pm-2:30pm.

Schools attend either the morning or the afternoon session. We will divide students into two groups. One group will attend the Plant and Food Research workshop, the other one the Kiwrious coding workshop. After 45-50min the groups will swap. There will be a small snack provided for a short break in between.

* **Plant and Food Research Institute** - Plant pollination workshop
The students will get to know what pollination is and what pollinators are. Then they'll attend a craft activity where each child can apply their knowledge by creating a pollen basket and attempting to successfully pollinate a flower.
* **Kiwrious**- Coding and Digital Sensors Workshop
Kiwrious will be running a coding workshop using their unique digital sensors.

**FRIDAY 3RD SEPTEMBER –**

**Rotorua**, Toi Ohomai Campus & Digital Natives Academy

Morning session is 10am-12pm Afternoon session is 12:30pm-2:30pm.

Schools attend either the morning or the afternoon session. We will divide students into two groups. One attends the Coding NZ workshop, the other one the Kiwibots workshop. After 45-50min the groups will swap. We provide a small snack for a short break in between.

* **Kiwibots** - Robotics Workshop
Students will build and program Einstein and VEXX robots with Jessica Cathro, the Digital Technology Educator from the Rotorua Library.
* **Coding NZ**- Coding Workshop

Digital Natives Academy 10am-12pm at their headquarter in the center of Rotorua.

* **Digital Natives Academy** - Animation, Esports and Digital Wellbeing Workshop
Groups of students will rotate around digital activities covering Animation, Esports and Digital Wellbeing. DNA specialises in promoting and educating kiwi tamariki in digital adventures in a responsible and safe environment.

Contact Ewa Saar ewa@stemwanatrust.nz to book in