

# *Tahi Rua Toru Tech in the classroom*



# Karakia Timatanga

Kia hora te marino  
Kia whakapapa pounamu te moana  
Hei huarahi mā tātou  
i te rāngi nei  
Aroha atu aroha mai  
Tātou i a tātou katoa  
Hui ē! Tāiki ē!

## **Opening Karakia**

May peace be widespread  
May the sea be like greenstone  
A pathway for us all this day  
Let us show respect for each other  
For one another

Bind us all together



# Tahi Rua Toru Tech | NZ's Digital Challenge in the classroom: Introductions



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**Mel Sutton**

**Clyde Quay School  
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**Megan Connolly**

**Arahoe School  
Auckland**



# Webinar content outline

1. What is Tahi Rua Toru Tech?
2. Megan Connolly
3. Mel Sutton
4. Next steps and key dates



# 123Tech

- 12 Week in-class challenge
- Free to all schools and Kura
- Aligned with progress outcomes
- Four levels of the challenge
  - Discovery Y0 – 5
  - First Y5 – 8
  - Secondary Y9 – 10
  - Senior Secondary Y11 – Y13
- Available in English and te reo Māori





# What's involved

- **Discovery unplugged activities**

- Resources

- **Project based challenge**

- Brief
- Platforms
- Support
- Resources

- **Celebrations**

- Regional
- National

**Document F01: Te Hōtaka Mahi**

**Te Wero:** Tautofhua tētahi raru i roto i tō kura, hāpori rānei, ka whakamahi ai i te hangarau matihiko ki te whakaoti hopanga!

**Te Whāhanga:** Te whakarohi i te pūmanawa rorohiko, tauāpanga rānei, tētahi hōtaka hanganga, he hōtaka hanganga matihiko, he aha atu rānei? Mā te hangarau matihiko, he aha hoki te āwheranga

**Hei mahi:**

- Timatahia tō rangi...
- Tiaaritia...

**Document F02: Working as a Team**

Whether you're forming a league of avenging superheroes, surviving a zombie apocalypse, having an impromptu dance battle, or starting your own App in a garage, teamwork is an important key to success.

To ensure that all team members contribute equally it's a good idea to establish from the start how your team will work together.

There will be difficulties and your team cope...

**Document F03: Progress Check**

Tracking your progress will help your team work like a well-oiled machine (and tasks don't fall to the wayside!)

Before you move forward, check that you have:

- Started your team Blog and posted your first post?
- Completed some background research?
- Developed an aim and plan that is clear and realistic?
- Discussed with your teacher whether you're project...

**Document F04: Programme of Work**

**The Challenge:** Identify a problem in your school or community and use digital technologies to solve it!

Software or app development, an infrastructure project, digital animation or something else? With Digital Tech, the choice is yours.

wk	Phase	What to do
1	Preparation	<ul style="list-style-type: none"><li>• Start your project blog</li><li>• Allocate key tasks to team members - check out the 'Fo2: Working as a Team' document</li><li>• Familiarise yourselves with the challenge brief</li><li>• Produce a list of ideas.</li></ul>
2	Explore your ideas	<ul style="list-style-type: none"><li>• Try out some activities to see what the best idea is and whether or not it will work.</li><li>• Think about what you might need for your project</li><li>• Find out all you can about your topic and talk to your teacher and/or mentor about it.</li><li>• Each team member could explore a different aspect of the topic or idea and report back to the team during a meeting.</li><li>• Remember to record everything you do on your blog, including pictures, diagrams and sketches</li><li>• Please make sure your project is safe and that it does not inconvenience other people. Your teacher will advise if you need to consider human ethics.</li></ul>
3	Conception and Design	<ul style="list-style-type: none"><li>• Decide what your solution will be, what it will do, what your key stand out features will be and why, and how you think you might create it.</li><li>• Check out 'Fo3: Choosing a topic' if your team having trouble choosing between topics.</li></ul>

**Document F07: Project Report**

Time to reflect on your project and what you have found. You can either use this template or create your own report document.

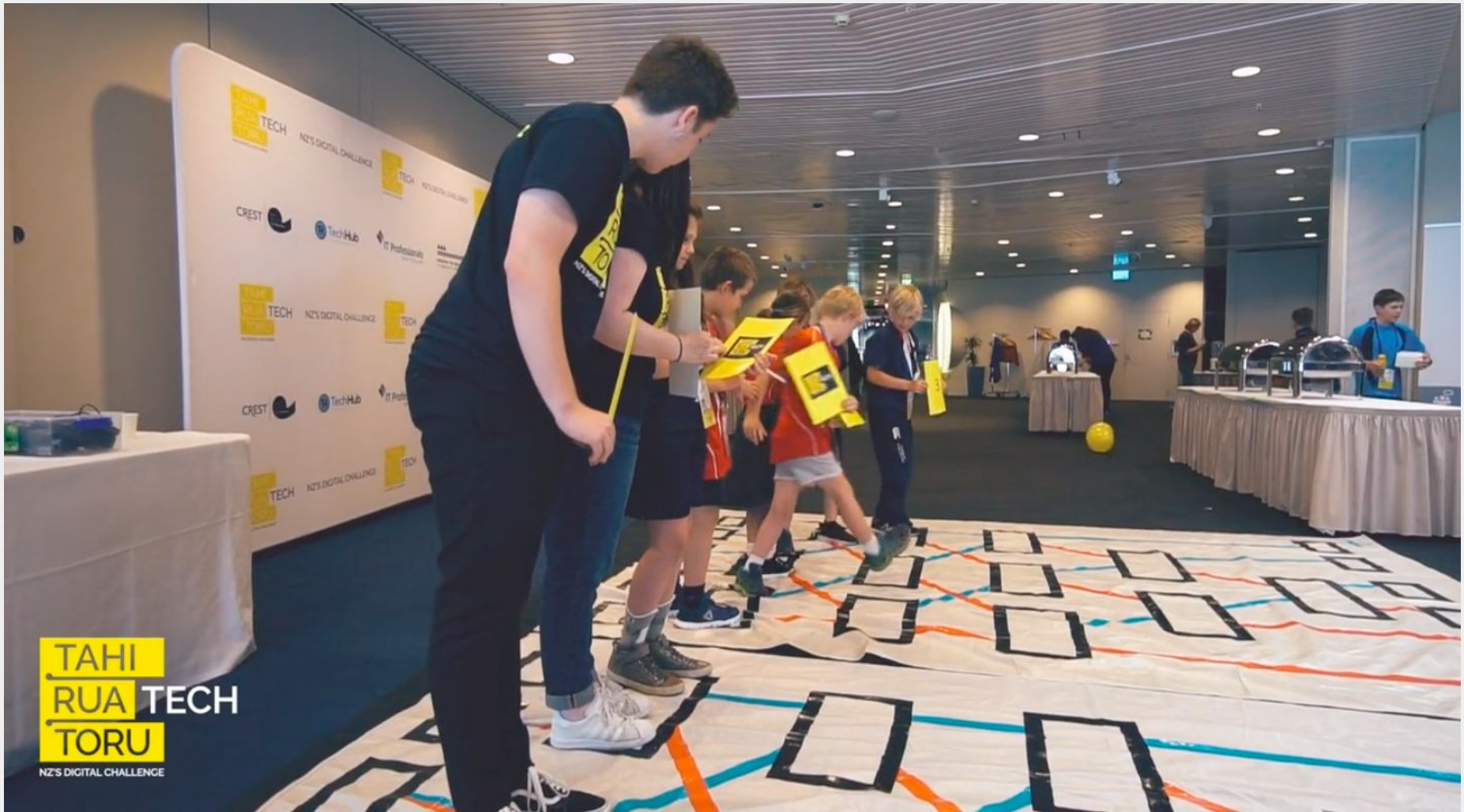
**Project name:**

**Team Name and Members:**

**School:**

**TAHIRUA TECH TORU**  
NZ'S DIGITAL CHALLENGE  
DIGITAL CREST First

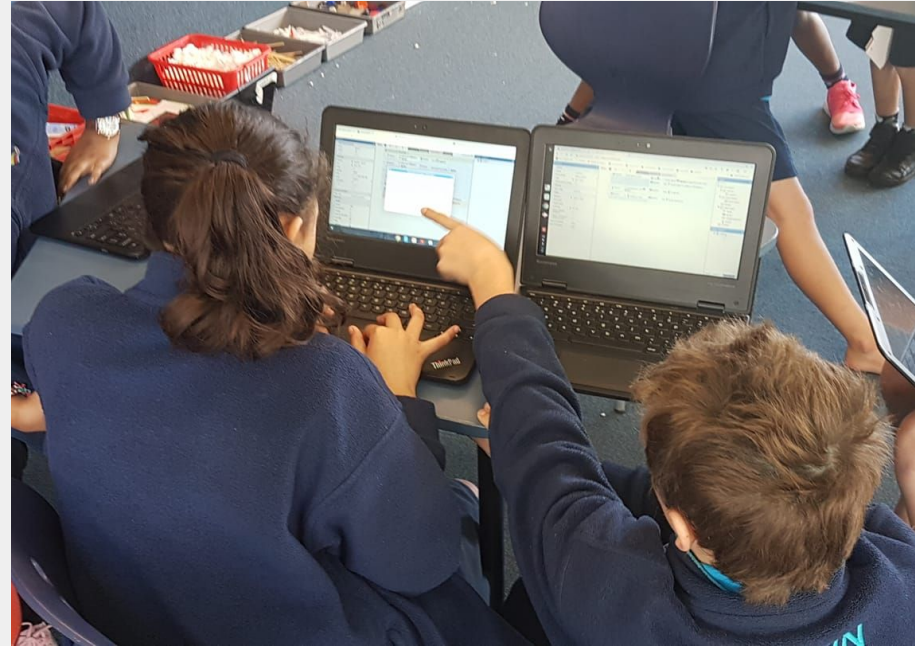
# 2018 Highlight reel



# Introducing Megan Connolly

## 123Tech @ Arahoe School

- Students in years 4 – 6
- Discovery and First challenges
- In-class and withdrawal models
- Teacher PLD to develop





# Discovery

## Tips and Tricks

- Teach computational thinking without computers!
- Online resources, easy-to-use
- Create a bank of physical resources
- Suit each challenge to a theme/topic
- Once each activity is taught, can be used as a daily warm-up or game (integration across curriculum)



# First

## Tips and Tricks

- Students stay engaged if they choose a good topic
- Make it real!
- Industry mentors
- Find a coordinator/s with a balanced skill set (programming knowledge and design process)
- Students don't need to know how to code!



# Introducing Mel Sutton

## 123Tech @ Clyde Quay School

- Students in years 7 – 8 (and some years 5 – 6)
- Primary and First Challenges
- Full class / options / special projects





# Finding your passion

- Don't underestimate how finding a passion to base a project on influences the outcome
- Try to be open to students ideas – but have some back up ideas
- Be ready to think big and let go of the reins
- Cross curricula appeal
- Use tech in many different ways
- Sharing widely – class, school, and community





# Benefits for everyone

- Students can work at their own level
- Teacher led - Student driven
- Boost in student confidence and independence
- Boost in teacher confidence particularly with “unplugged”
- Community connections / including mentorship
- Structured outline to support, along with 123Tech online support



# Technology in the NZC

- Digital  
technologies  
questions and  
answers

[Home](#) > [Technology in the NZC](#) > [Digital technologies support](#) > DT questions and answers

## Digital technologies questions and answers

### Answers to questions from teachers and school leaders – Are we on the right track?

On this page you can find answers to the most common questions educators have been asking about digital technologies within the revised technology learning area.



▼ Curriculum – What's changed? What does it look like now?

▼ How do we get started as school leaders?

▼ How do we get started as teachers?

▼ How do we continue and extend our development in this area?

▼ Implementation requirements – What's mandated?

### Digital Technologies and the New Zealand Curriculum – Your guide to finding support and getting ready

For key information about getting ready, see also the Ministry of Education booklet *Digital Technologies and the New Zealand Curriculum – Your guide to finding support and getting ready*. [↗](#)





# Technology in the NZC

- Digital technologies support

[Home](#) > [Technology in the NZC](#) > Digital technologies support

## Digital technologies support

For schools who are moving to implement the revised digital technologies curriculum content, a range of information, professional learning opportunities, resources, case studies, and innovative ideas are now being developed for you to access and use.

Follow the links below to find out more.



### Digital technologies in *The New Zealand Curriculum*

Go to The New Zealand Curriculum Online to access the digital technologies curriculum content in the revised technology learning area.



### Digital technologies progress outcomes, exemplars, and snapshots

Find the progress outcomes, exemplars, and snapshots illustrating teaching and learning for digital technologies:

- Computational thinking for digital technologies
- Designing and developing digital outcomes



### Digital technologies professional supports

*Information about the professional supports for digital technologies all in one place!*

Find information about professional supports here. Read about the digital technologies support projects – with regular updates and links to resources and further information.



### Digital technologies questions and answers

Find answers to some of the most common questions about digital technologies in the revised technology learning area.



# Technology Online newsletter

- See the Technology Online newsletter [here](#)



## Technology Online

Kia ora and welcome to the twenty-eighth edition of the Technology Online newsletter. In these newsletters we keep you up-to-date with [Technology Online](#) and pass on other information that you may find useful as a member of the technology education community.

### What's new on Technology Online?

New and revised resources are being loaded every week. Here are some of our recent favourites.

#### Webinar recordings

##### Introducing the learning progressions for digital technologies

Catherine Johnson describes the new learning progressions for computational thinking and designing and developing digital technologies, and shares where to find out more information and support.



##### NCEA level 1 digital technologies achievement standards

In this webinar recording, hear Julie McMahon and John Creighton talk about the new structure of the technology learning area, new terminology in the achievement standards, and changes to specific digital technologies standards.



#### Useful websites – Links for digital technologies

##### Links for digital technologies

Explore tables full of useful digital technologies resources to help you in your planning. You can find links to resources, and you can also download the tables to use as the start of your own resource collection.



# Technology Online

*Kaua e rangiruatia te hāpai o te hoe;  
e kore to tātou waka e ū ki uta*





# Karakia Whakamutunga

Ka whakairia te tapu  
Kia watea ai te ara  
Kia tūruki whakataha ai

Kia tūruki whakataha ai  
Hui e Tāiki e

*Restrictions are moved aside  
So the pathway is clear  
To return to everyday activities*

*Enriched and unified*

