



Kia Takatū ā-Matihiko

Digital Readiness

Catherine Johnson

English Medium

Project Lead

National Digital

Readiness Programme



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



Technology Online webinar: Kia Takatū ā-Matihiko | National Digital Readiness Programme

Catherine Johnson
English Medium Project Lead,
Kia Takatū ā-Matihiko | National
Digital Readiness Programme



Webinar content outline

At the end of this webinar, you will be able to:

- 1. Know** what the programme is and how to register
- 2. Access** the online resources in Kia Takatū ā-Matihiko
- 3. Understand how** the resources can support implementation of the digital curriculum content



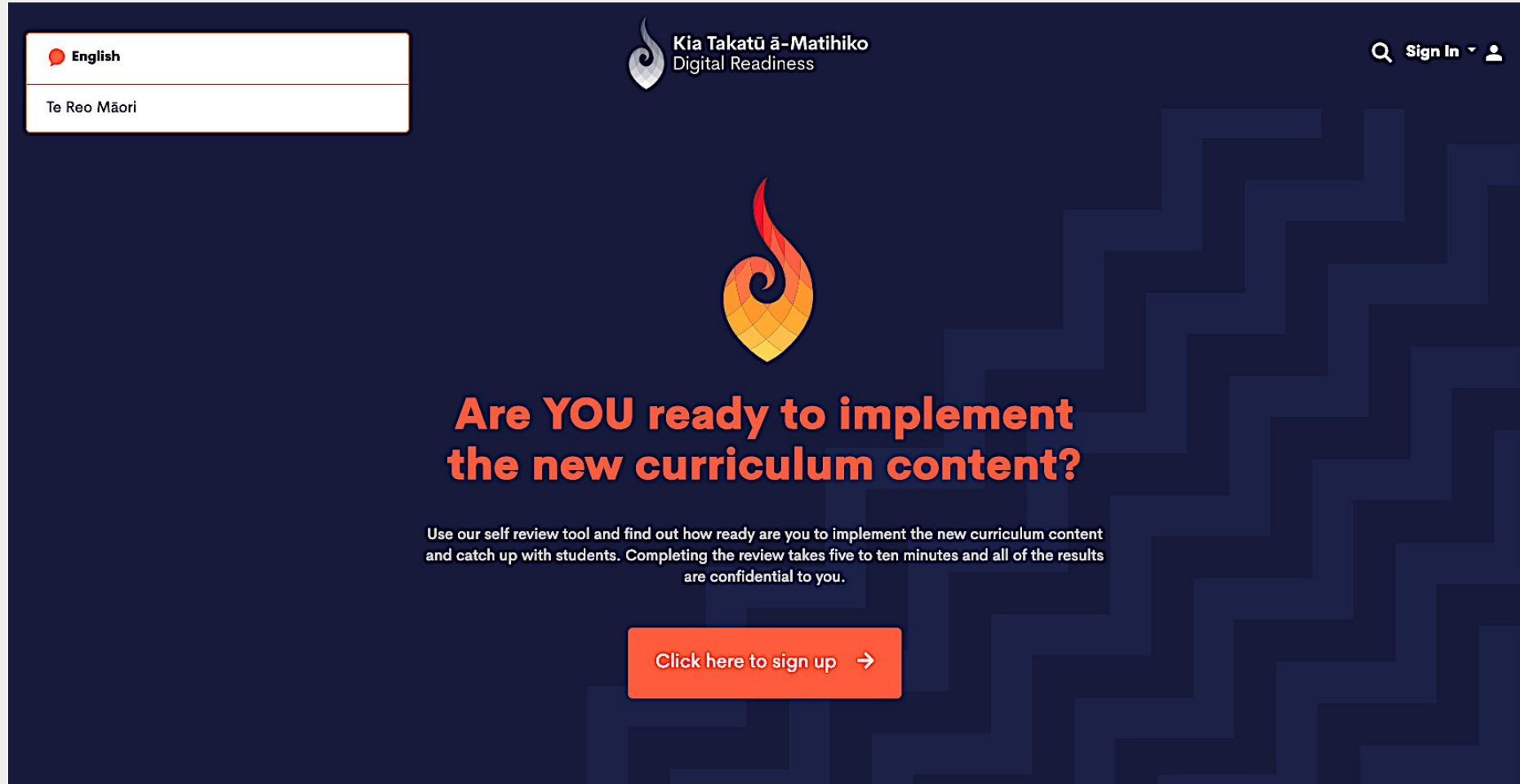
What is this revision about?

“... teaching children how to design their own digital solutions and become creators of, not just users of, digital technologies, to prepare them for the modern workforce.”

Chris Hipkins, 2018



Part 1: Know what the programme is and how to register




The screenshot shows the homepage of the Kia Takatū ā-Matihiko Digital Readiness website. The background is dark blue with a subtle pattern of white and light blue geometric shapes. In the top left corner, there is a language selection menu with 'English' selected and 'Te Reo Māori' as an option. In the top center, the logo for Kia Takatū ā-Matihiko Digital Readiness is displayed, featuring a stylized flame icon. In the top right corner, there is a search icon and a 'Sign In' button with a user profile icon. The main content area features a large, stylized flame icon in the center. Below the icon, the text reads: 'Are YOU ready to implement the new curriculum content?' in a bold, orange font. Underneath this, a smaller white text block states: 'Use our self review tool and find out how ready are you to implement the new curriculum content and catch up with students. Completing the review takes five to ten minutes and all of the results are confidential to you.' At the bottom center, there is a prominent orange button with the text 'Click here to sign up →'.

English

Te Reo Māori

Kia Takatū ā-Matihiko
Digital Readiness

Search Sign In



Are YOU ready to implement the new curriculum content?

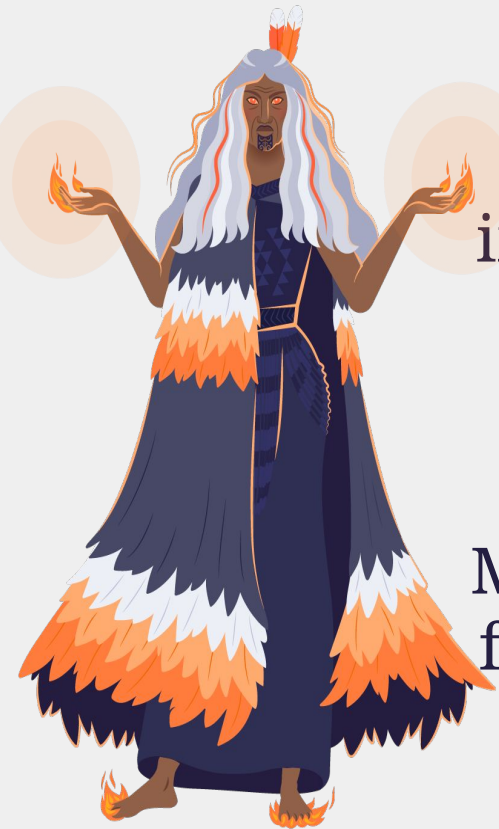
Use our self review tool and find out how ready are you to implement the new curriculum content and catch up with students. Completing the review takes five to ten minutes and all of the results are confidential to you.

Click here to sign up →

Kia Takatū ā-Matihiko is a national digital PLD programme

The National Digital Readiness programme supports teachers and kaiako to be ready to implement the new and revised digital curriculum content.

The programme is inspired by the legend of Māui, his kuia Mahuika, and how the source of fire was discovered – one of the first technologies.



(Link to a great YouTube clip - [How Māui found the secret of fire](#))

Kia Takatū ā-Matihiko

- A national PLD programme for *all* teachers/kaiako
- A Kaupapa Māori approach
- Personalised; whatever your starting point
- Uniquely Aotearoa
- Gender equality (Māui/Mahuika)
- Growing digital capability for teachers/kaiako
- Growing sustainability locally and nationally
- Growing leaders | te pā pouahi



Which learner type are YOU?

Be
Like
Mahuika

Kia
Mahuika
tō
rite



Kaitiaki/Guardian
Responsible
Compassionate
(Social Good)
Sustainability
Protector
patient
Fierce
Insightful
Trustworthy
Moral, ethical

Be
Like
Māui

Kia
Māui
tō
rite



Curious
Innovative
Risk Taker
Goal Orientated
Active Pursuit
Bug Fixer/Debug
Collaborator
Adaptable
Growth Mindset
Playful
Crafty
Problem Solver

Can you/should you be both?

Māui image download [here](#)

KIA TAKATŪ Ā-MATIHI 1 DIGI READINESS MODEL

TE TOKORIMA-A-MAHIKA
SELF REVIEW TOOL

LEADERSHIP

WHITAWHITA
BLAZE



EMBEDDED

PROFICIENCY

MUMURA
BURN



IMPLEMENTING

CONFIDENCE

HAHANA
GLOW



TRIALING

READINESS

MĀPURA
SPARK



INVESTIGATING

AWARENESS

HIKA
FRICTION



UNAWARE

UNAWARE

POUHI
DIGITAL LEADERS



PĪKAU
TOOLKITS

3



KI TE AHIKĀROA
LOCAL MEETUPS

4

TE PĀ POUAHI
DIGITAL LEADERS COURSE

5

NGĀ KIRIAHI
ONLINE COMMUNITY
OF PRACTICE

2



CTA?

So what is
YOUR call to
action?



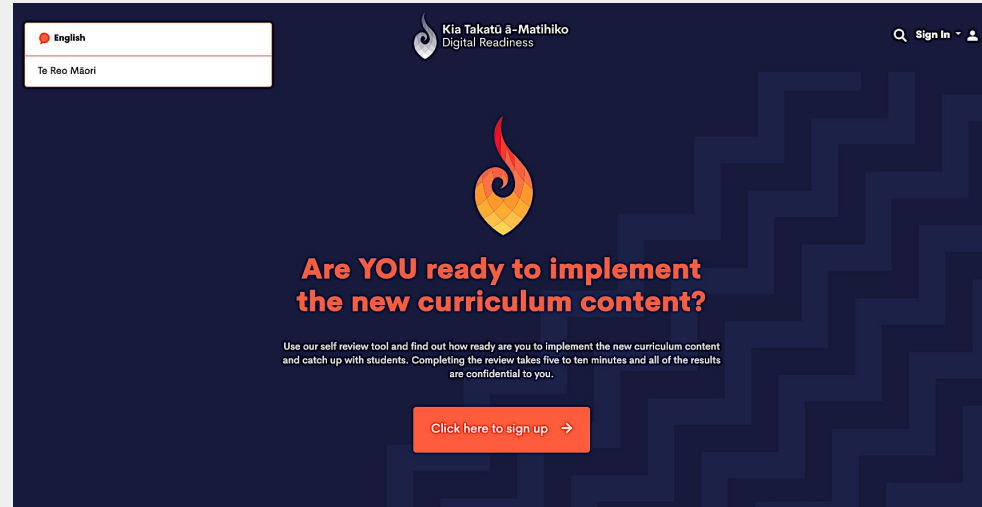
Photo by [Rui Silvestre](#) on [Unsplash](#)

www.kiatakatu.ac.nz #kiatakātū #getready #futurethinkingtoday


Part 2: Access the programme website

Where *you* access the online resources:

- Self Review Tool | Te Tokorima-a-Mahuika (TTaM) ,
- Toolkits | pīkau,
- Community | Ngā kiriahi
- Meetups | Ahikāroa
- Leaders | Pouahi




Where to start? e-Learning/ICT versus Digital Technologies



Kia Takatū ā-Matihiko
Digital Readiness

e-Learning/ICT Capability versus Digital Technologies



e-Learning - developing capability to learn WITH ICTs

- Presentation tools
- Locate and store information
- Digital publishing
- Interpret timelines
- Ownership and use - copyright law
- Managing files
- Mapping and geospatial tools
- Online communication and collaboration
- Digital music / multimedia

Create solutions and learn ABOUT Digital Technologies

- Digital products
- Robotics, mechatronics, and automation
- Coding and programming (sequence, selection and iteration)
- Computational thinking
- Software engineering
- User Interface
- Algorithms
- Pattern recognition
- Systems thinking
- Decompose problems
- Storing and Transmitting data (binary numbers)
- Data collection, presentation and analysis

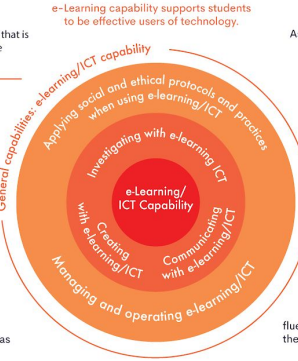
e-Learning or Information Communication Technology (ICT) Capability in the New Zealand Curriculum

e-Learning is learning and teaching that is facilitated or supported through the appropriate use of ICTs

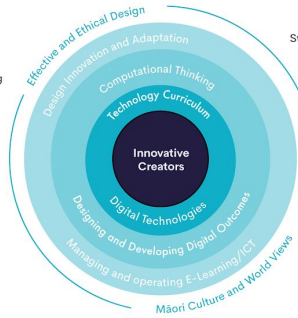
Assists in the creation of supportive learning environments by offering resources that take account of individual, cultural, or developmental differences;

Enhances opportunities to learn by offering students virtual experiences and tools that save them time, allowing them to take their learning further

Incorporates digital citizenship, fluency and literacy, when considering the ethical and social impacts of using technologies.



Digital Technologies



New curriculum content for year 1-10 students with a focus on learning in authentic contexts, using an iterative, design thinking process.

Develops knowledge, understandings and skills of the underlying concepts of computational thinking for digital technologies (CT) and designing and developing digital outcomes (DDDO).

Examples of e-Learning in action

- Use digital concept mapping tools to plan and select research tasks.
- Use presentation software to present findings of an inquiry that includes text, images and video.
- Use video to analyse a sports performance to provide coaching tips
- Use a computer simulation or game to test predictions and collect data.
- Use a search engine effectively as a research tool.
- Use spreadsheet functions to create tables, record, sort, calculate and present data to identify trends
- Use an online game that has a grid map system to learn about directions.
- Share a book review or information using a QR code.
- Use tools such as Google docs to work collaboratively on a project and Skype to connect with outside experts.

Examples of Digital Technologies in action

- Code a makey makey to play sounds from bottle caps
- Create a QR code image using black and white squares. Invite a classmate to decode and access the information contained.
- Compare a transport network system and computer network system to explore ideas about pathways, reliability, protocols and security.
- Create an interactive story from a favourite book with user-input using a familiar programming language.
- Create your own simulation using a visual or text-based programming language.
- Explore ways to generate and access secret code by securely transmitting data through techniques of encryption and decryption.
- Create network diagrams to identify relationships between different sources of data and analyse this data.
- Design your own maze and use an app to program a robot to go through it.


“ Digital Fluency is about understanding how to use digital technologies.

Tim Bell
University of Canterbury

Digital Technologies is about learning to be a creator in the digital world, not just learning to use systems.

” Digital Technologies is NOT about learning WITH technology (e-learning), it's learning ABOUT technology.

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e-Learning/ICT versus Digital Technologies – Where is it?

Step 1 Home – Resources

Select DT Toolkits (for NZC)

Kia Takatū ā-Matihiko Digital Readiness

Readiness
ā-Matihiko

Resources
Rauemi

Rauemi / Resources

Progress Breakdown
you will find your progress

Tools

Community

Self Review Tool

Local Meetups

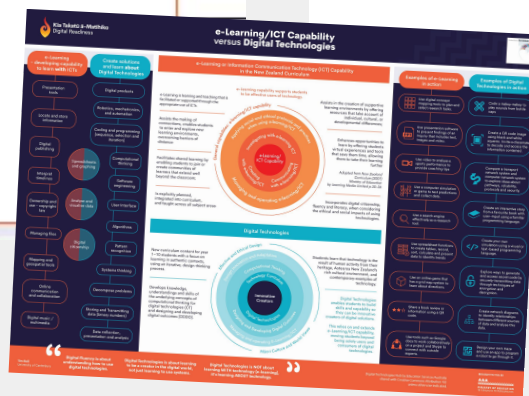
Toolkits

Pīkau means backpack or toolkit. By the end of this readiness program (Kia Takatū ā-Matihiko) you'll have a pīkau/resources to use for teaching and learning the new digital technologies content.

Choosing pīkau/toolkit

At the beginning of each pīkau/toolkit, there is an introduction. It includes a video with information about what you can decide if it is the right one for you. Whether you are working on a pīkau at Hika | Ignition, or Whitawhi digital readiness, we'll have practical activities that you can implement into your learning space. You will also have time you should put aside to complete the pīkau.

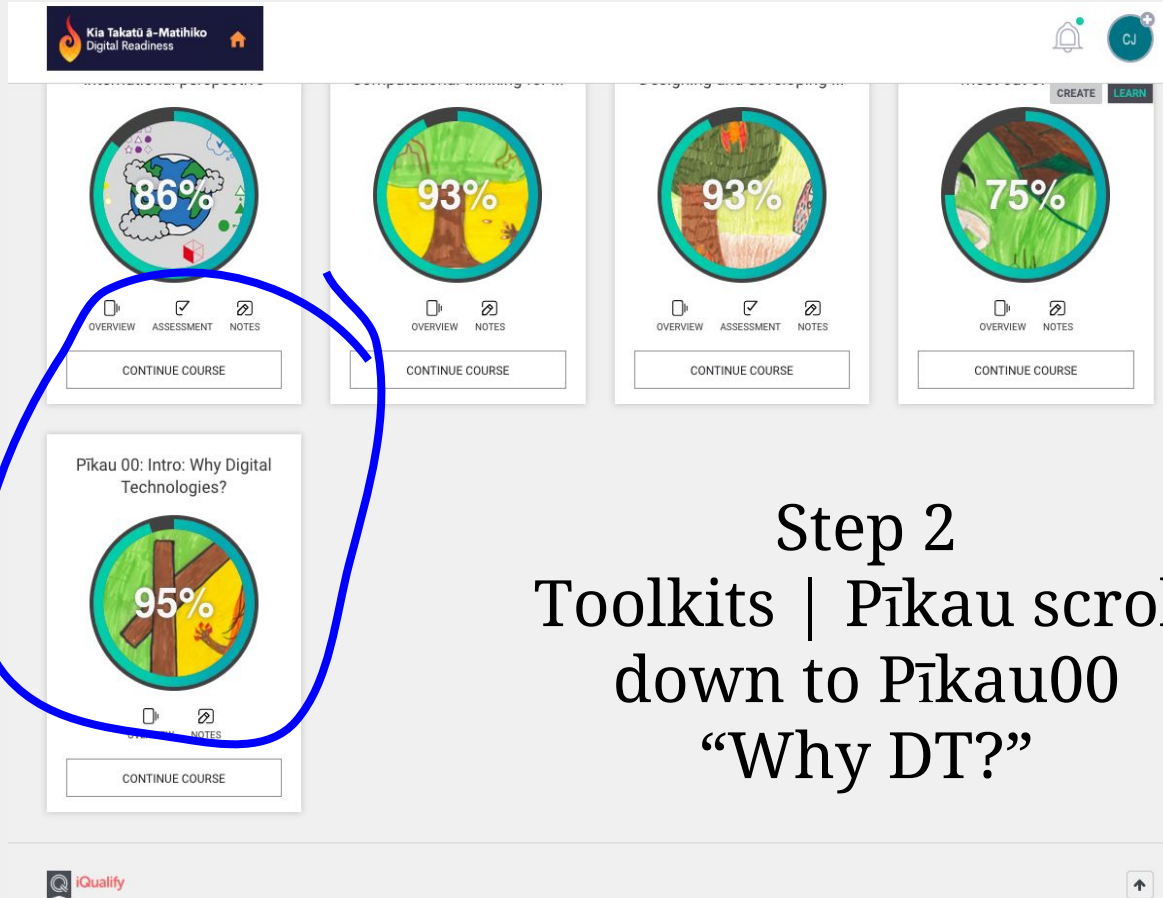
[Pīkau Hangaarau Matihiko](#) → [Digital Technologies Toolkits](#) →



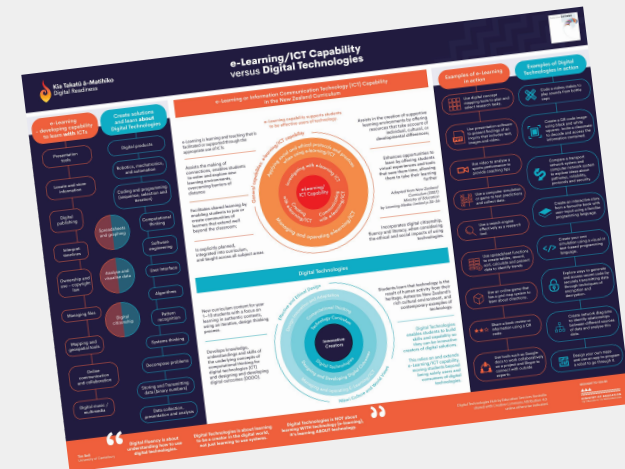
e-Learning/ICT versus Digital Technologies – Where is it?

Toolkits | Pīkau

Opens up the
online learning
platform iQualify



Step 2
Toolkits | Pīkau scroll
down to Pīkau00
“Why DT?”

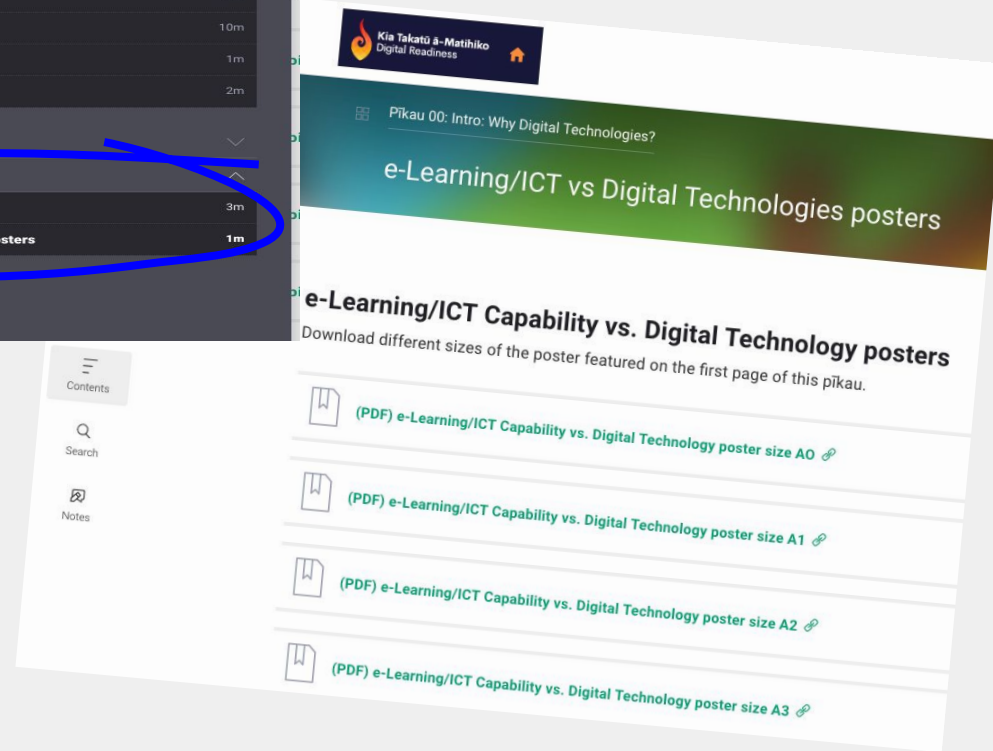
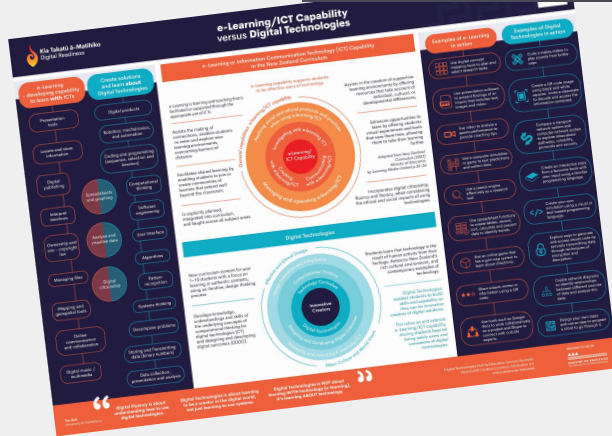
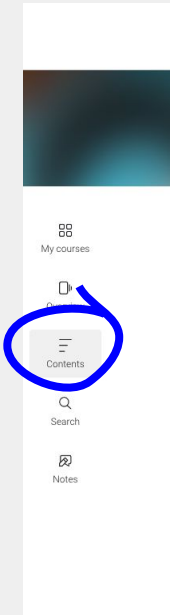


e-Learning/ICT versus Digital Technologies

– Where is it?

Step 3
Contents -
Resources...

Item	Duration
Why DT?	
✓ Why this matters	3m
✓ Links to existing knowledge	5m
✓ How are your students better off?	15m
✓ What's it like to teach digital technologies?	5m
✓ Is it all about devices?	10m
✓ What about all the jargon?	3m
✓ Timeline of algorithms and related ideas	5m
✓ What's the structure of the learning area?	10m
✓ Where to next?	1m
✓ Pīkau evaluation form	2m
Ngā Kiriahi discussions	
Additional resources	
Facilitation notes	3m
e-Learning/ICT vs Digital Technologies posters	1m



Call To Action!

The Challenge / Te Wero...

1. Complete SR tool
2. Profile & post in ngā kiriahi / online community
3. Check out the Pīkau / Toolkits
4. See how your learning is progressing by doing the SRT again (iterative)



Technology Online resources

- [Technology in the NZC](#)
- [Digital technologies professional supports](#)
- [Technology webinar recordings](#)
- [Technology in the news](#)



Technology Online newsletter

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



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TE TĀHURU O TE MĀTAURANGA

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.



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TE TĀHURU O TE MĀTAURANGA

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*

