

Planning support for eLearning or Digital Technologies

E-Learning / developing capacity to learn

Ako-E / Te Whakatipu i te āhei ki te ako

Presentation Tools Taupānga Whakaaturanga
Locate and store information Te rapu me te rokiroki i te mōhiohio
Digital Publishing Tā ā-matihiko
Interpret timelines Te Whakamārama i ngā rārangi wā
Ownership and use - copyright law Te ture manatā, nā wai, mā wai te rauemi
Managing files Te whakahaere kōnae
Mapping and Geospatial Tools Ngā taputapu mahere, matawhenua-whaitua?
Online communication and collaboration Te whakawhitiwhiti, mahitahi tuihono
Digital Music / multimedia Puoro/Rongorau Matihiko
Use digital concept mapping tools to plan and select research tasks. Whakamahia he taupānga ōhia-manomano ki te hanga mahere me te tīpako i ngā mahi rangahau
Use presentation software to present findings of an inquiry that includes text, images and video. Whakamahia he taupānga whakaaturanga, ki te whakaatu i ngā kitenga o te tūhuratanga me ngā kupu, ngā atahanga me ngā ataata

Use a computer simulation or game to test predictions and collect data.

Whakamahia he whaihanga, he kēmu rānei ki te whakamātau i ngā matapae me te kōhi rauemi.

Use a search engine effectively as a research tool.

Kia kakama te whakamahi i te pūkaha rapu hei rauemi rangahau.

Use spreadsheet functions to create tables, record, sort, calculate and present data to identify trends

Whakamahia ngā taupānga ripanga ki te hanga i ngā tēpū, te hopu, te tātari, te tātai me te whakaatu i te raraunga me te tautohu i te ia o ngā raraunga.

Use an online game that has a grid map system to learn about directions.

Whakamahia he kēmu tuihono e whakamahi ana i te mahere tukutuku ki te ako i ngā ahunga.

Share a book review or information using a QR code.

Tuarihia tētahi arotakenga pukapuka, he mōhiohio rānei mā te whakamahi i te waehere QR.

Use tools such as Google docs to work collaboratively on a project and Skype to connect with outside experts.

Whakamahia he taputapu pērā ki a Google Docs ki te mahi tahi i tētahi kaupapa, me Skype ki te hono ki ngā matanga o waho.

Create solutions and learn about Digital Technologies

Waihanga i ngā Otinga, ā, ako mō te Hangarau Matihiko

Digital products Otinga Matihiko
Robotics, mechatronics and automation Te Mātai Karetao, te mātai pūrere-tāhiko me ngā hangarau aunoa
Coding and programming (sequence, selection and iteration) Te tuhiwaehere me te hanga papatono (raupapanga, kōwhiringa me ngā koromeke)
Computational Thinking Whakaaro Rorohiko
Software Engineering Mataaro Pūmanawa Rorohiko
User Interface Ātanga Whakamahi
Algorithms Hātepe
Pattern Recognition Te āhukahuka tauira
Systems thinking Whakaaro Pūnaha
Decompose Problems Whakamatariki i ngā Hopanga
Storing and Transmitting data (binary numbers) Te rokiroki me te whakawhiti i te raraunga (nama tāhūrua)
Data Collection, presentation and analysis Te Kohikohi, te whakaatu me te tātari raraunga
Code a makey makey to play sounds from bottle caps

Hanga waehere kia whakatangi ai te makey makey ki te taupoki pātara.

Create a QR code image using black and white squares. Invite a classmate to decode and access the information contained.

Hangaia tētahi waehere QR mā te whakamahi o ngā tapawhā pango me te mā. Tukua tētahi o ngā hoa o te akomanga ki te weteoro i te waehere ki te hono atu ki te mōhiohio kei roto.

Compare a transport network system and computer network system to explore ideas about pathways, reliability, protocols and security.

Whakatairite i te pūnaha whatunga huarahi, me te pūnaha whatunga rorohiko, kia tūhura i ngā ariā e pā ana ki te horopū, ngā tikanga whakahaere, me te haumarutanga.

Create an interactive story from a favourite book with user-input using a familiar programming language.

Tito i te kōrero-paki pāhekoheko me ngā tāuru

Explore ways to generate and access secret code by securely transmitting data through techniques of encryption and decryption.

Tūhura i ngā ara hei hanga i ngā waehere huna, ka titiro ki ngā rautaki whakamuna me te wetemuna i ngā raraunga, kia haumaru te whakawhitiwhiti.

Create network diagrams to identify relationships between different sources of data and analyse this data.

Waihangatia ētahi hoahoa whatunga, kia tautohua ngā hononga i waenga i ngā putunga raraunga rerekē, kātahi arotakengia te raraunga.

Design your own maze and use an app to program a robot to go through it.

Waihangatia tō ake ara-manganga me tētahi papatono kia eke ai te karetao i taua ara.

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Create your own simulation using a visual or text-based programming language.

Waihangatia he whaihanga, mā te reo papatono ā-tuhi, ā-ataata rānei

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