

Is it learning with or learning about Digital Technologies?

Instructions: Print one set per team and cut each phrase/task out.

E-Learning / developing capacity to learn with ICTs	Ako-E / Te Whakatipu i te āhei ki te ako mā te ICT	Create solutions and learn about Digital Technologies	Waihanga i ngā Otinga, ā, ako mō te Hangarau Matihiko
Presentation Tools	Taupānga Whakaaturanga	Digital products	Otinga Matihiko
Locate and store information	Te rapu me te rokiroki i te mōhiohio	Robotics, mechatronics and automation	Te Mātai Karetāo, te mātai pūrere-tāhiko me ngā hangarau aunoa
Digital Publishing	Tā ā-matihiko	Coding and programming (sequence, selection and iteration)	Te tuhiwae here me te hanga papatono (raupapanga, kōwhiringa me ngā koromeke)

Interpret timelines	Te Whakamārama i ngā rārangi wā	Computational Thinking	Whakaaro Rorohiko
Ownership and use - copyright law	Te ture manatā, nā wai, mā wai te rauemi	Software Engineering	Mataaro Pūmanawa Rorohiko
Managing files	Te whakahaere kōnae	User Interface	Ātanga Whakamahi
Mapping and Geospatial Tools	Ngā taputapu mahere, matawhenua-whaitua?	Algorithms	Hātepe
Online communication and collaboration	Te whakawhitiwhiti, mahitahi tuihono	Pattern Recognition	Te āhukahuka tauira
Digital Music / multimedia	Puoro/Rongorau Matihiko	Systems thinking	Whakaaro Pūnaha

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	Decompose Problems	Whakamatariki i ngā Hopanga
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	Storing and Transmitting data (binary numbers)	Te rokiroki me te whakawhiti i te raraunga (nama tāhūrua)
Use video to analyse a sports performance to provide coaching tips	Whakamahia he ataata ki te tātari i te kaha o te mahi hākinakina, me te tuku i te āwhina.	Data Collection, presentation and analysis	Te Kohikohi, te whakaatu me te tātari raraunga
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 kahi rauemi.	Code a makey makey to play sounds from bottle caps	Hanga waehere kia whakatangi ai te makey makey ki te taupoki pātara.

<p>Use a search engine effectively as a research tool.</p>	<p>Kia kakama te whakamahi i te pūkaha rapu hei rauemi rangahau.</p>	<p>Create a QR code image using black and white squares. Invite a classmate to decode and access the information contained.</p>	<p>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.</p>
<p>Use spreadsheet functions to create tables, record, sort, calculate and present data to identify trends</p>	<p>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.</p>	<p>Compare a transport network system and computer network system to explore ideas about pathways, reliability, protocols and security.</p>	<p>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.</p>
<p>Use an online game that has a grid map system to learn about directions.</p>	<p>Whakamahia he kēmu tuihono e whakamahi ana i te mahere tukutuku ki te ako i ngā ahunga.</p>	<p>Create an interactive story from a favourite book with user-input using a familiar programming language.</p>	<p>Tito i te kōrero-paki pāhekoheko me ngā tāuru</p>

Share a book review or information using a QR code.	Tuarihia tētahi arotakenga pukapuka, he mōhiohio rānei mā te whakamahi i te waehere QR.	Create your own simulation using a visual or text-based programming language.	Waihangatia he whaihanga, mā te reo papatono ā-tuhi, ā-ataata rānei
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.	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 haumaruru 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.

		<p>Compare a transport network system and computer network system to explore ideas about pathways, reliability, protocols and security.</p>	<p>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.</p>
		<p>Create an interactive story from a favourite book with user-input using a familiar programming language.</p>	<p>Tito i te kōrero-paki pāhekoheko me ngā tāuru</p>
		<p>Create your own simulation using a visual or text-based programming language.</p>	<p>Waihangatia he whaihanga, mā te reo papatono ā-tuhi, ā-ataata rānei</p>
		<p>Explore ways to generate and</p>	<p>Tūhura i ngā ara hei hanga i ngā</p>

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