

## ***Tena koutou katoa, Talofa lava, Malo e lelei, Kia Orana, Fakalofa Lahi Atu, Greetings***

Thank you for taking part in Phase One of the [Developing in Digital Worlds](#) research and development project. We appreciate your time, effort and support.

This information sheet outlines what your school, teachers, students and their parents/caregivers would be expected to do if your school chooses to take part in Phase Two and Three of the project. Phase Two will continue to test how to promote achievement and participation in the digital world at school and out-of-school through '21st century' cognitive and social skills development. This phase begins in 1 May 2018 and ends 31 December, 2018. Phase Three starts October 2018 and ends in September 2019. In this phase we will disseminate our findings.

### **Developing in Digital Worlds Team**

This project is funded by the Ministry of Business, Innovation & Employment and is being conducted by Woolf Fisher Research Centre located in the Faculty of Education and Social Work at the University of Auckland (UoA) with: UoA Department of Engineering, University of Otago, WestEd (USA) and the Kia Aata Mai Educational Trust. The research Science Leader is Professor Stuart McNaughton.

### **Why this study?**

This study is focusing on three cognitive and three social skills: critical thinking, critical literacy, argumentation (cognitive); self-regulation, collaborative reasoning, and pro-social skills (social). [Developing in Digital Worlds](#) will deliver descriptions of these '21st century' skills which are currently inadequately described, not assessed and not mapped onto the New Zealand Curriculum and Te Marautanga o Aotearoa.

### **Objectives and aims**

Our overarching hypothesis is that cognitive and social development will have characteristics specific to the '21st century' digital world. We want to identify dimensions in those environments which influence the timing and quality of their acquisition.

*This study has three objectives:*

- to change our current level of understanding of '21st century' skills;
- to understand how to prevent the new digital environments opening up a second 'digital divide' between low socio-economic status or diverse cultural and linguistic communities from more affluent 'mainstream' communities;

- to meet the challenge of the Vision Marautanga policy through comparing three school clusters whereby development of the target skills within an 'early adopting' cluster and 'later adopting' clusters (English and Māori medium) are described and compared.

*The study will answer three research questions:*

- How does participation in the digital world influence children's cognitive and social development?
- What skills, knowledge and capabilities do children need to manage, engage and benefit from participating in the digital world?
- How can family, educators and society effectively support children's involvement in the digital world?

### **Who is involved?**

[Developing in Digital Worlds](#) is a collaboration with one 'early adopting' school cluster, and two 'later adopting' school clusters (English and Māori medium). We want to collect information from teachers (primary and secondary), students (aged 4 to 17), and their parents/caregivers.

### **Data collection and use**

Phase Two involves collection of the following data to track cognitive and social skill development and the promotion of student outcomes since Phase One:

- Literacy, numeracy and science inquiry data from school based assessments (e.g., e-asTTle, PAT);
- Observations of teacher lessons;
- Questionnaires for teachers, students and parents/caregivers;
- Student online discussion board activity.

There will be the opportunity to participate in a [further two studies](#) which offer specific focus on 21<sup>st</sup> century skill development through [family guidance](#) and [digital tools \(games\)](#). Researchers will contact you at a later date to discuss this opportunity.

All data will be coded, entered into databases and analysed by researchers.

### **What will happen with the information?**

We are committed to keeping participants informed and will continue to provide ongoing feedback as the project progresses. We will do this via newsletters, research updates on the project and Manaikalani websites, feedback sessions with schools, and through partnerships with Manaikalani Education Trust, Ngā Kura a Iwi, Pasifika External Advisory Komiti, MoE, students, parents/whānau and educational professionals / networks such as the New Zealand Literacy Association and CORE Education.

At the end of the project we will provide participants with access to a summary report of the overall findings. These findings will inform national educational policy for developing cognitive and social skills in digital environments.

### **Does your school have to take part in the study**

No, as participation is voluntary. Your school and individual participants can withdraw from the project at any time without having to give any reason. Participants may withdraw any of **their information** up to 18 December 2018.

### **What will your school be invited to do?**

If your school chooses to participate, you will need to sign a consent form giving us permission to work with your school to conduct the research and:

- Let your staff, students, and parents/caregivers know that your school is taking part and give assurance to staff, students, and parents/caregivers that their participation or non-participation will not influence their relationship with the school or their access to school services;
- Allow researchers access to your school collected student achievement and demographic data (literacy, numeracy and science inquiry where available) for Term 1 and 4, 2017 and Term 1, 2018 for Years 3-8 students ;
- Provide contact details for teachers of students in Years 3-8 so researchers can invite them to participate;
- Provide school email addresses for students in Years 3-8 so we can match their National Student Number to email address for the discussion board activity;
- Allow researchers to meet with consenting teachers to explain the data collection process and answer any questions;
- Allow consenting teachers, on behalf of researchers, to distribute a project pack to students to take home and discuss with their parents/caregivers. This pack contains Participant Information Sheets for the student and their parents/caregivers inviting them to take part. If they agree, they will be asked to sign and return the Consent Form to the teacher in a Woolf Fisher Research Centre self-seal envelope which will be provided. Researchers will collect the envelopes at regular times. Teachers will not be responsible for recruiting students and parents/caregivers to participate in the research.
- Place a link in your school newsletter and/or websites to online Participant Information Sheets and Consent Forms.

### **What will teachers be invited to do?**

Teachers of Years 3-8 who agree to take part will need to sign a Consent Form. Consenting teachers will be asked to do the following from May 2018 to December 2018:

- On behalf of researchers, distribute a project pack to students to take home and discuss with their parents/caregivers. This pack contains Participant Information Sheets for the student and their parents/caregivers inviting

them to take part and, if they agree, to sign and return the Consent Form in the Woolf Fisher Research Centre self-seal envelope provided.

- On behalf of researchers, receive self-seal envelopes with Consent Forms from students and parents/caregivers.
- Complete one questionnaire (approximately 30 minutes) in Term 3, 2018 either online or paper-based in their own time. This will ask questions about their digital instructional practices.
- Be observed once by a researcher for up to 1 hour; in Term 3, 2018. The researcher will make notes of the lesson using an observation template recording teacher activity, student grouping and the nature of digitally integrated instruction. Teachers can request a copy of the researcher's notes.
- For students who agree and have parental consent, conduct one online discussion board activity in a lesson in Term 4, 2018. Researchers will liaise with teachers on the task requirements.

#### What will parents/caregivers be invited to do?

We would like to invite parents/caregivers to do the following between May and December 2018:

- Give permission for their child to take part;
- Consent to complete one questionnaire (approximately 35 minutes) in Term 3, 2018, either online or paper-based telling us how they support their child with their digital learning and development.
- Researchers will either email the questionnaire link or provide a stamped, self-addressed envelope with a questionnaire for parents/caregivers who opt to use the paper-based version.

#### What will students be invited to do?

As students are under 16 years, both the student and their parents/caregivers must agree that the student can take part. If both give permission, we would like to invite students to do the following between May 2018 and December 2018:

- Complete one online social/digital questionnaire during school time in Term 3, 2018. This will take approximately 30 minutes to complete.
- Complete one online critical thinking questionnaire during school time in Term 3, 2018. This will take approximately 30 minutes to complete.
- Complete one online discussion board activity in Term 4, 2018. This will take approximately 30 minutes and test argumentation skills within a digital context. Researchers will work with teachers on the activity.

#### Privacy and confidentiality

Participants' privacy and confidentiality is important to us and will be protected at all times during and after the project is completed. All researchers involved with the study must comply with the UoA Ethics and the New Zealand Privacy

Act 1993. The UoA Human Participants Ethics Committee has given approval for this study to be conducted. Only aggregated research findings will be discussed and published. Reports, articles and feedback arising from this research will not identify the school and/or any participants as the source of the data. All participants' information will remain completely confidential to the researchers. Online questionnaires will be sent directly to a UoA platform. All data will be kept securely on the server network drive at the Woolf Fisher Research Centre for six years. Electronic consent information will be stored in a separate database and hard copies will be stored in a locked room. Data will then be confidentially destroyed and/or deleted after six years.

#### If you would like to take part

Please sign the Consent Form and email this to the Project Manager, Angela McNicholl, on [a.mcnicholl@auckland.ac.nz](mailto:a.mcnicholl@auckland.ac.nz). If you have questions or would like more information contact the Science Leader, Professor Stuart McNaughton, on: [s.mcnaughton@auckland.ac.nz](mailto:s.mcnaughton@auckland.ac.nz).

#### **Key Researchers**

Professor Stuart McNaughton – University of Auckland  
Dr Rebecca Jesson – University of Auckland  
Dr Rashina Hoda – University of Auckland  
Professor Elaine Reese – University of Otago  
Dr Cynthia Greenleaf – WestEd, USA  
Cath Rau – Kia Ata Mai Educational Trust

#### **Project Manager**

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#### **For any concerns regarding ethical issues you may contact:**

The Chair  
The University of Auckland Human Participants Ethics Committee  
The University of Auckland, Research Office – Office of the Vice Chancellor  
Private Bag 92019, Auckland 1142  
Telephone: +64 09 373 7599 ext. 83711  
Email: [ro-ethics@auckland.ac.nz](mailto:ro-ethics@auckland.ac.nz)

# DEVELOPING IN DIGITAL WORLDS

## Phases Two and Three

### PARTICIPANT INFORMATION SHEET

#### Primary School

#### Board of Trustees/Principal

This information sheet outlines what your school, teachers, students and their parents/caregivers would be expected to do if you choose to take part in Phases Two and Three of the *Developing in Digital Worlds* research and development project.



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