



# Pukekohe North School

Princes Street, Pukekohe. Phone 0-9-238-8552

## Technology Policy:

### Rationale:

Pukekohe North School students need to acquire the skills of being creators of digital solutions moving beyond being solely users and consumers of digital technologies.

Classroom practices exhibit daily use of Information and Communication Technologies (ICT) by both staff and students as they use intellectual and practical resources to create technological outcomes based upon addressing needs and realising opportunities to expand human possibilities.

Necessity is the mother of invention. (Greek Philosopher Plato)

### Objectives:

1. To develop our students as connected, future-focused global citizens of the world
2. To expose our students through authentic integrated contexts, to the five technological areas: Designing and Developing Materials Outcomes, Designing and Developing Processed Outcomes, Design and Visual Communication, Computational Thinking for Digital Technologies and Designing and Developing Digital Outcomes.
3. To enable our students to use digital systems and applications, developing knowledge and skills to use a variety of technologies to create digital content across a range of digital media
4. To teach our students to be effective users, creators and controllers of digital content in discovering solutions in their world
5. To provide opportunities for our students through their technological investigations to confidently learn, understand and use the vocabulary of technological practices
6. To provide opportunities for our staff and students to develop creative, critical and reflective thinking skills as they innovate and adapt resources and designs.
7. To ensure that all users are protected against objectionable material and unsavoury electronic / digital practices.
8. To ensure that all Pukekohe North Road School Staff and Students are aware of the rules binding the use of Information and Communication Technologies at this school.

### Guidelines:

#### Teaching and Learning Programmes:

Teachers will take a cross-curricular approach with students learning in the 5 technological areas as part of an inquiry that encompasses several curriculum areas

**Computational Thinking for Digital Technologies** – Students use computers to help them solve problems.

1. Students develop algorithmic thinking skills and an understanding of the computer science principals that underpin all digital technologies
2. Students become aware of what is and isn't possible with computing
3. Students will learn core programming concepts, how data is stored and how all information is presented using digits and the impact that different data representations have on the nature and use of this information.

**Designing and Developing Digital Outcomes** – Students will learn that digital applications and systems are designed for quality, fit for purpose digital outcomes

1. Students develop their understanding of the technologies people need in order to locate, analyse, evaluate and present digital information efficiently, effectively and ethically
2. Students will learn to manipulate and combine data expertly using information management tools to create an outcome
3. Students learn about intellectual property issues particularly focussing upon patents and copyright

4. Students will develop understandings of how to build, install and maintain computers, networks and systems
5. Students will develop skills in using different technologies to create digital content for the web, interactive digital platforms and print

**Designing and Developing Materials Outcomes** –Students develop knowledge and skills that allow them to form, transform and work with resistant materials, textiles and fashion

1. This allows them to create both conceptual and prototypic technological outcomes that solve problems and satisfy needs and opportunities
2. Students develop knowledge about systems, structures, machines and techniques used in manufacturing systems
3. Students will learn about quality assurance
4. This technological area aims to develop critical thinking focussing upon fit for purpose, impact and influence on society and the environment
5. Students will apply their knowledge of design principles to create innovative outcomes that realise opportunities to solve real world problems.

**Designing and Developing Processed Outcomes** – In this area students develop the knowledge and of the materials and ingredients used to make food, chemical and biotechnological products

1. Students will form, transform and manipulate materials or ingredients to develop conceptual, prototypical and final technological outcomes that meet the needs of society
2. Students engage in a range of processes related to food, biotechnological, chemical and agricultural technologies
3. Students will explore the impact of different economic and cultural concepts on the development of processed products including product preservation, packaging and storage
4. Students will develop understandings of systems, processes and techniques used in the manufacturing of products

**Design and Visual Communication:** Students learn to apply design thinking bby using visual communication to conceptualise and develop design ideas in response to a brief

1. Students will be able to make sense of images and make images that make sense
2. Students will apply visual literacy through sketching, digital modes and modelling techniques to effectively communicate and present design ideas
3. Students will learn about aesthetics and function and sustainability
4. Students will learn that design is influenced by human, societal, environmental, historical and technological factors

#### **Digital Citizenship Expectations:**

1. Teachers and students are encouraged to use school computers, laptops and devices for their teaching and learning. Teachers are encouraged to use DVDs, You Tube, TV On Demand and similar educational sites for teaching and learning purposes.
2. Teachers must ensure they have pre-viewed all resources to be used with their students prior to any public screening.
3. As a guide, teachers should not use material that is classified any higher than a PGR rating with their students.
4. Our ICT Leader regularly reviews sites and provides blockages for inappropriate material reaching our students.
5. All care and diligence is expected from all users of Pukekohe North School hardware and software at all times reporting any faults or breakages to the ICT Lead Teacher immediately
6. Should any user access an inappropriate site on the internet, they must turn off the monitor, close the laptop lid or power off a device and notify the class teacher.
7. Users will not send personal information about yourself. (Addresses, phone numbers or photographs.)
8. Users are expected to be polite, using courteous and appropriate language in online communications

#### **Publication of Student Work on Line:**

1. Pukekohe North School requests a written annual update (February) of from parents / whanau as to their wishes for the on line publication of their child's work.

2. Several times per term, staff upload examples of each students' Reading, Writing and Mathematical achievements. (Unless parental permission denies this.)
3. This is to allow family members' access to their students learning. This works well in particular for overseas relatives to keep track of a student progress.

#### Cell-phones:

1. Whilst Pukekohe North School staff would prefer students did not bring cell-phones to school, we are aware that for year 7-8 students, they provide a great level of safety and security for afterschool activities for whanau.
2. If situations dictate, Whanau should make contact with their child's teacher and request permission for a cell-phone to be brought to school.
3. On arrival at school, students will give their cell-phones to their teachers to lock away until home-time each day.
4. Pukekohe North School will not accept any responsibility for any un-presented cell-phones left in school bags.

#### Conclusion:

Pukekohe North School's focus upon design thinking, technology education supports students to be innovative, reflective and critical in designing new models, products, software, systems and tools to benefit people while taking into account their impact on cultural, ethical, environmental and economic conditions.

The Pukekohe North School Board of Trustees expects to see its staff and students use all forms of ICT Hardware and Software to prosper teaching and learning.

Through strict adherence to the Code of Conduct, rules have been set for the protection, safety, ethical and responsible use of Information and Communication Technologies for all users.

Adapted February 2019

Review February 2021

Parental / Student ICT Code of Conduct Agreement:

**Parent/Caregiver:**

I have read and understand this Technology Policy and give permission for my child

\_\_\_\_\_ to use the digital teaching and learning systems at

Pukekohe North School.

My child will abide by the school expectations for the use of digital devices and I am aware that if my child may have his or her rights withdrawn if they are abusing school resources or not abiding by digital citizenship principles.

\_\_\_\_\_  
Signed

\_\_\_\_\_  
Date