

This newsletter and the Secondary Student Achievement Professional Learning and Development initiative is funded by the Ministry of Education. The providers are The University of Auckland and Te Tapuae o Rehua consortium.

# National Newsletter: Technology

## Information and resources for middle leaders in secondary schools | Term 1 2014

Kia ora, talofa, welcome to the term 1 national technology newsletter 2014. In this issue we cover some important revisions to the Safety in Technology Education guidance manual, the national workshop series, Technology Online and some review of materials.

There have been some personnel changes within the national team; Lesley Pearce has left after five years to take up a position at Rangitoto College. Lesley will be missed by technology teachers in the Auckland and Northland region, and throughout NZ. We wish her all the very best for her new position. Nicole Price joins Team Solutions as technology facilitator covering Auckland and Northland while Malcolm Howard picks up Lesley's role as National Co-ordinator. Cheryl Pym remains as National Coordinator in the Southern and Central South regions as does Neville Myers as regional facilitator.

We look forward to working with you during 2014 and wish you a successful and positive start to 2014. In future newsletters we plan to cover external assessment, authenticity and a variety of news and updates.

Nga mihinui

Malcolm and Cheryl  
National Co-ordinators Technology Education

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## Important updates

### 2014 version of the standards

All the achievement standards at levels 1, 2, and 3 have been updated and most are now version 2 (except for some level one standards which are now version 3). This change was made to reflect the change from Techlink to Technology Online which is referred to in explanatory note 1 in all the standards. Ensure you are using the correct version of the standard. All standards are available on the NZQA subject resources page.

### 2014 matrix

The latest version of the matrix of achievement standards has January 2014 in the footer. Available on the NCEA on TKI page at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards/Technology>

### 2014 Assessment specifications

The 2014 assessment specifications for level 1, level 2, level 3, and scholarship are available on the NZQA subject resources page.

### New UE criteria for 2014

The changes to university entrance come into effect this year. Note that any technology 'subject' with assessment using the level three technology achievement standards counts as an 'approved subject' for UE purposes. For full details go to

[http://www.nzqa.govt.nz/qualific  
ations-  
standards/awards/university-  
entrance/](http://www.nzqa.govt.nz/qualifications-standards/awards/university-entrance/)

## A new safety guidance manual for technology education

The start of a new year and the release of a new guidance manual concerning safety in technology education makes it a very opportune time to review your safety practices and safety planning in your department.

The new publication *Safety in Technology Education: A Guidance Manual for New Zealand Schools* replaces the previous 1998 version. It has been updated to reflect current best practice, the new technology curriculum, and the changes to the types of materials, tools, and equipment that are now used in NZ schools.

The new guidance manual is available on Technology Online as both a web version and as a downloadable PDF:

<http://technology.tki.org.nz/Curriculum-support/Safety-in-Technology-Education>

We recommend that HOF's and HOD's read the publication from cover to cover and that all teachers read the sections relevant to them. We would like to draw your attention to two important appendices:

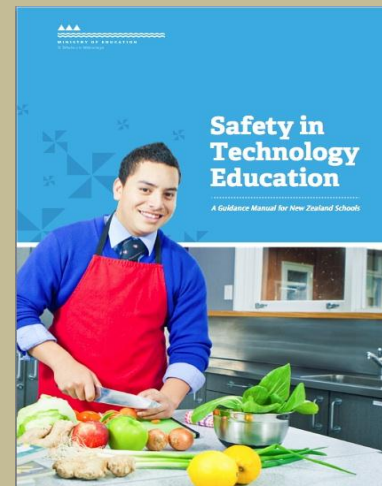
Appendix five has the recommended ages that students use various tools and equipment. This list has been expanded and updated from the previous version. Teachers and departments should ensure the practices in their school are in line with these recommendations.

Appendix one has a template to use for safety planning in technology education. This follows a risk management approach of identifying potential risks with the equipment and materials being used in particular units and specifying how these risks will be managed.

Part of effective safety practices within your department is ensuring that, in addition to adhering to best practice in the workshops and other technology teaching spaces, you have good documentation in terms of safety planning. In the worst case scenario that an accident occurs, would your department's safety documentation stand up to scrutiny by any investigating authorities? Consider using the planning template in appendix one for each different unit of technology.

We would recommend that all technology faculties, departments, and individual technology teachers take time to review this important new publication, and put it on the agenda at your next faculty/department meeting. As a department, ask yourself these two important questions:

1. Are our safety practices in line with current recommendations and accepted best practice as outlined in this guidance manual?
2. Is our safety planning documentation up to standard?



<http://technology.tki.org.nz/Curriculum-support/Safety-in-Technology-Education>

### NZQA's Best Practice Workshops

This year there are two types of 'Best Practice' workshops. One is the subject-specific model called Making Judgments that has been delivered over the last five years. The other is a new type of generic workshop called Connecting with Contexts. For further information and details of dates, venues, costs, and the process for registration see the NZQA website:

<http://www.nzqa.govt.nz/about-us/events/best-practice-workshops/>

### Vocational Pathways internal assessment resources

New assessment resources have been developed for a range of technology achievement standards related to the vocational pathways

<http://ncea.tki.org.nz/Vocational-Pathways-Internal-Assessment-Resources>



## National Technology workshops 2014

In 2014 there will be one national workshop for the Head of Faculty, department, TIC and middle leaders delivered across Aotearoa New Zealand.

The national workshop will consist of three 90-minute sessions covering curriculum messages and pathways, junior programme planning in years 7-10, with a focus on teaching for progression and student achievement. This will be developed through exploring contexts for learning; how to develop contexts and enhance student engagement; and the use of achievement and learning objectives, teacher guidance notes and indicators of progression.

### Session 1: Programme design

- Understanding progressive programming to support student achievement from years 7-13, aligned to the NZC.
- Developing an action plan to develop programme design on return to own school context with a focus on years 9-10 (or Years 7-10).

Participants will examine programmes from a range of technology discipline contexts and critique them to develop greater understanding of teaching for progression and the New Zealand Curriculum in order to enhance student engagement and develop coherent programme planning.

### Session 2: Big ideas for success

- Developing understanding of the key messages from 2013 external assessment, national moderation reports and the clarifications documents; and the literacy required to allow students to achieve.
- Developing familiarity and confidence with the senior secondary learning guides and the learning progression charts (TKI).

Participants will develop an understanding of how to teach and structure report writing relevant to the external submissions and work collaboratively to develop working models of synthesis, explanatory report writing and compare and contrast.

Key aspects covered will include; literacy requirements - how to write using student voice and demonstrate understanding; the step up from describe, explain to discussion and synthesis in broad terms of the characteristics of student understanding. Participants will use a number of pieces of student work to identify the next step learning to progress student achievement.

### Session 3: Bridging the gap/transitions: teaching for progression and deliberate acts of teaching to raise student achievement

- Developing critical evaluation skills in linking units of learning to curriculum objectives and indicators of progression.
- Develop an understanding of scaffolding the learning to support student achievement at curriculum level 6.

Participants will choose examples from a range of student work and explore the following:

- Where is the evidence of the teacher guidance from the progressions charts evident within the sample of student work?
- Where would this piece of work sit in relation to curriculum levels and indicators of progression?
- What could be the next teaching point?
- What formative feedback could you give this student?

Reflection will cover the completion of the action plan and focus on how you as the middle leader are supporting your team to do this and identify gaps and actions to address these in relation to gaps in student learning to enhance student success at curriculum level 6.

## National technology workshops

The venues and dates within the regions covered by Team Solutions are:

**Hamilton – 7 May**

**Tauranga – 21 May**

**Napier – 28 May**

**Gisborne – 29 May**

**Whangarei – 4 June**

**Auckland – 6 June**

### To register

To attend Auckland and Whangarei workshops, email Nicole Price at [n.price@auckland.ac.nz](mailto:n.price@auckland.ac.nz)

For the Hamilton, Tauranga, Napier, or Gisborne workshops, email Malcolm Howard at [m.howard@auckland.ac.nz](mailto:m.howard@auckland.ac.nz)

The venues and dates within the regions covered by Te Tapuae o Rehua are:

**New Plymouth – 7 May**

**Wellington – 8 May**

**Christchurch – 21 May**

**Dunedin – 26 May**

### To register

If you wish to attend workshops in New Plymouth, Wellington, Christchurch or Dunedin, fliers will be sent to all schools. Please complete the online enrolment form. Southern and Central South Technology workshops information <http://www.otago.ac.nz/education/ess/secondarytechnology.html> or to go directly online to the registration <https://secure-www.otago.ac.nz/ess-enrolment/secondaryncea.html> Contact University of Otago, College of Education, Education Support Services, email: [essadmin@otago.ac.nz](mailto:essadmin@otago.ac.nz)

### These workshops are free

Note there is no cost to register as the workshop is funded by the Ministry of Education as part of its support for the Secondary Student Achievement professional development.

Note: morning tea only is provided. You will need to supply your own lunch and please bring a laptop.

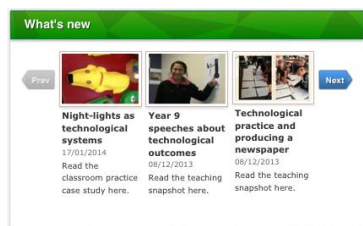
## Technology Online – a key resource for all technology teachers

If you haven't visited Technology Online recently you need to visit the site and bookmark it! There are so many resources on the site you will need many visits to start to appreciate just what is there. In this newsletter we profile three parts of Technology Online:

- What's New on Technology Online
- Ask an expert
- Beacon Practice Technology Project Phase 3 Update.

### What's New on Technology Online

The 'What's New' window on the homepage of Technology Online is an easy way to see what are the latest resources that have been published on Technology Online. <http://technology.tki.org.nz/>



### Ask an expert on Technology Online

Have you checked the 'Ask an expert' section of Technology Online yet? There are currently about 60 questions submitted by teachers with a response. To ask your own question or to see the questions and answers already there, visit the website at

<http://technology.tki.org.nz/Teacher-education/Professional-Development/Senior-Secondary-PLD/Ask-an-expert>

### Beacon Practice Technology Project Phase 3 Update

The focus in this project is on the technological Knowledge and Nature of Technology strands of Technology in the *New Zealand Curriculum* (2007) in Years 1-10, with an emphasis on culturally responsive pedagogy, innovative environments and supportive relationships. Resources developed by the teachers will be shared on Technology Online at:

<http://technology.tki.org.nz/Resources/Beacon-Practice-Technology-Project-Phase-3/Phase-3-update>

## Useful links and resources

### Technology Online

<http://technology.tki.org.nz/>

### Secondary portal on TKI

<http://secondarznnyuhhhjy.tki.org.nz/>

### Senior secondary teaching and learning guides

<http://seniorsecondary.tki.org.nz/Technology>

### TKI NCEA Technology resources for aligned standards

<http://ncea.tki.org.nz/Resources-for-aligned-standards/Technology>

### NCEA Technology on NZQA

<http://www.nzqa.govt.nz/qualificationsstandards/qualifications/ncea/subjects/technology/levels/>

### NCEA Design and Visual Communication

<http://www.nzqa.govt.nz/qualificationsstandards/qualifications/ncea/subjects/graphics-dvc/levels/>

### Vocational Pathways

Explore the Vocational Pathways site and the profile builder with your students:

<http://youthquarantee.net.nz/vocational-pathways/>

### Profile Builder

<http://youthquarantee.net.nz/vocational-pathways/profile-builder/>

### Teaching and Learning Guide

<http://seniorsecondary.tki.org.nz/index.php/Technology/Achievement-and-learning-objectives>

### Tataiako Cultural Competencies

A progression of competencies teachers need to develop so they can help Māori learners achieve educationally as Māori.



<http://www.minedu.govt.nz/theMinistry/EducationInitiatives/Tataiako.aspx>