

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 2015

Kia ora, Tālofa lava, Mālō e lelei, Kia orana, Bula vanaka, Fakaalofa lahi atu, Talofa ni, greetings to you all.

Welcome to this first technology newsletter for 2015. We trust you had a relaxing and rejuvenating break and are looking forward to the 2015 school year. In this issue we cover:

- Whats new in 2015?
- Technology PLD opportunities in 2015.
- Key NCEA messages from recent NZQA circulars.
- Some recent publications.
- An index of topics covered in previous newsletters.

Ngā mihinui
Malcolm and Cheryl
National Co-ordinators – Technology
Secondary Student Achievement PLD

New in 2015

2015 technology national workshop

There will be one national technology workshop in 2015 repeated in a number of venues around the country. This workshop is intended for HOFs, HODs, TICs, and 2ICs. Topics covered will include junior programmes and assessment, NCEA key messages, and developing critical and creative thinking through technological literacy. For a list of dates, venues, and the process to register please see page four of this newsletter.

Teaching and learning guides for technology

The level 7 teaching and learning guide has been completed and is expected to be published this month (February). This guide has detailed information and ideas for teaching and learning for *all areas of technology*. The level 6 guide is due in term two this year. Look for these additions alongside the already published level 8 guide at <http://seniorsecondary.tki.org.nz/Technology>

New versions of the standards

New versions of the standards were published in January this year. The content of the standards has not changed but you will still need to ensure you are using the latest version and update version numbers in your course documentation. Refer to page two of this newsletter for more information.

Video resources on Technology Online

Check out the recent video resources related to the technological products component of the curriculum on Technology Online at <http://technology.tki.org.nz/Videos/Engaging-with-technological-products-in-years-9-13>

Online PLD

We are producing a series of online resources aimed at developing understandings related to the components of technology. The first in the series of four is on the Nature of Technology and is expected in term 1. Watch out for an email alerting you when this resource is out.

Contact details

National Coordinators

Cheryl Pym

Te Tapuae O Rehua Consortium
Mau ki te ako
College of Education
University of Otago
P: 03 2116832
M: 021 190 1317
E: cheryl.pym@otago.ac.nz

Malcolm Howard

Team Solutions
University of Auckland
P: 07 577 5305
M: 027 544 5695
E: m.howard@auckland.ac.nz

Regional Facilitators

Auckland and Northland

Nicole Price
n.price@auckland.ac.nz

Central North

Malcolm Howard
m.howard@auckland.ac.nz

Southern and Central South

Cheryl Pym
cheryl.pym@otago.ac.nz

Neville Myers
neville.myers@canterbury.ac.nz

Technology wikis

Southern Technology Wiki
<http://southern-technology.wikispaces.com/>

Team Solutions Technology Wiki
<http://technologynz.wikispaces.com/>

NCEA updates and reminders

Changes to achievement standards for 2015

The Ministry of Education, in association with the New Zealand Qualifications Authority (NZQA), advises the following changes for 2015.

From <http://www.nzqa.govt.nz/about-us/publications/newsletters-and-circulars/assessment-matters/changes-to-achievement-standards-for-2015/>

Rollover of Level 1 and 2 achievement standards

There are 518 Level 1 and 2 achievement standards with a planned review date of 31 December 2014. The version number of all these standards will change. In each internally assessed standard there will be an updated link to the Conditions of Assessment. The new planned review date is 31 December 2017. The 2015 standards are available on the NZQA website from the subject resources page.

Resources for rollover of Level 1 and 2 achievement standards

Current 'NZQA Approved' assessment resources for these standards published on the [NCEA on TKI](#) website remain fit-for-purpose. However these resources are expected to be updated, along with the change in version numbers, by the end of term 1 2015.

Reviewing your practices for external submissions

By now the external submissions are a blur from term 4 2014 but now is a good time to ensure your review of your processes and systems ensure a smooth round in 2015. One key piece of information can be found in our term 4 2014 newsletter relating to reviewing the outcomes of the assessment round using a checklist.

Refer to page two of that newsletter at

<http://nzcurriculum.tki.org.nz/Secondary-middle-leaders/Professional-learning-and-development/E-newsletters/National-newsletters-2014>

Referencing

Did you know the following information regarding referencing? Candidates are required to reference materials they have sourced, cited or quoted, as follows:

- For written publications: author, publication source and year of publication.
- For websites: full URL and site name.
- For film/video sources: name and year of production.

In Technology specifically:

Candidates must be instructed that material such as photographs, diagrams, and screen shots which have been reproduced from course materials need to be referred to as 'Supplied' at the point of use.

Where sources are quoted in the submission, candidates need to be made aware that:

- Any text reproduced from a source, which is larger than a complete sentence, should be quoted and referenced at the point that it is used.
- Text which is less than a complete sentence may be compiled from several sources into paragraphs as long as the material is acknowledged in an end reference.

From

<http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/ncea-exams-and-portfolios/external/authenticity-requirements-for-non-examination-external-assessment/>

Updated resources

Updated exemplars and clarifications documents for internally assessed NCEA Level 1 achievement standards

From Assessment Matters circular A2014/050 - 20 Nov 2014

<http://www.nzqa.govt.nz/about-us/publications/newsletters-and-circulars/assessment-matters/updated-exemplars-and-clarifications-documents-for-internally-assessed-ncea-level-one-achievement-standards/>

Assessment Matters



Updated exemplars and clarifications documents for internally assessed NCEA Level One Achievement Standards A2014/050 - 20 Nov 2014

Timeline

Recently, NZQA has begun updating *exemplars of student work and clarifications documents* on the [NCEA Subject Resources](#) pages. The process is progressive and begins with Level 1. It was expected that all updates for NCEA Level 1 will be completed by the end of December 2014.

Purpose of exemplars

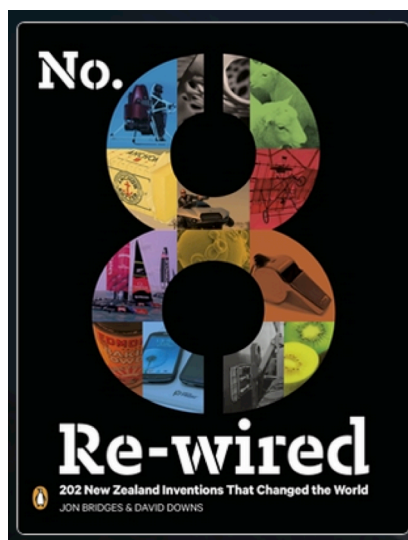
"Exemplars of student work" are intended to assist assessors in making judgements that are consistent nationally. They focus on grade boundaries, provide an *extract* of student evidence, and a commentary by the moderator to explain key aspects of the criteria of the standard. *They are not a complete sample of student work.*

Purpose of clarifications

"Clarifications documents" unpack the requirements of the achievement criteria of a standard, where issues have been identified through external moderation. They are not intended to cover every aspect of the standard.

To access the updated clarifications and exemplars refer to the relevant subject resources page on the NZQA website (Technology, DVC, or Computing and Digital Technologies).

Recent publications



No 8 Rewired is a new book by Jon Bridges and David Downs which celebrates the already famous inventors from New Zealand, and those that may have otherwise faded into obscurity. It includes 202 inventions that have been innovative and world changing.

Or visit the website that has interesting articles and a Blog
<http://www.no8rewired.kiwi/>

The section of the site featuring the NZ inventions is a great place to visit to remind us of just how inventive New Zealanders have been!

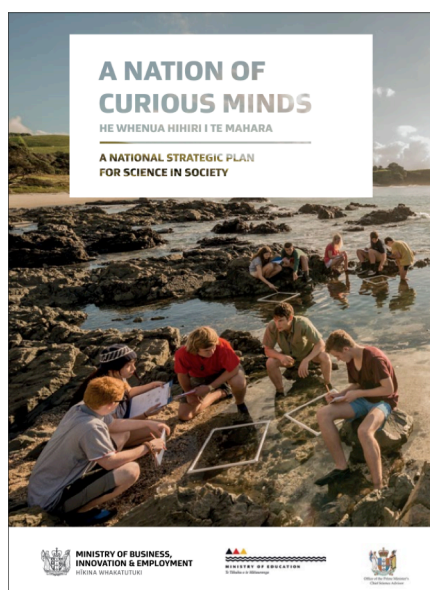
<http://www.no8rewired.kiwi/nz-inventions/>

You can listen to an interview with the author

<http://www.radionz.co.nz/search/results?utf8=%E2%9C%93&q=%238+rewired>

A Nation of Curious Minds

<http://www.msi.govt.nz/assets/MSI/Update-me/Science-in-society-project/science-in-society-plan.pdf>



This strategic plan recognises the important role scientific knowledge and innovation play in our lives and in creating and defining New Zealand's future, economically, socially and environmentally.

'A Nation of Curious Minds' sets out the following goals for the next ten years:

- More science and technology competent learners, and more choosing science, technology, engineering and mathematics (STEM)-related career pathways.
- A more scientifically and technologically engaged public and a more publicly engaged science sector.
- A more skilled workforce and more responsive science and technology.

In the light of this publication, and the book about innovation in NZ, it is a good time to remember the statements in the New Zealand Curriculum pertaining to what technology is and why we should study this discipline.

What is technology about?

Technology is intervention by design: the use of practical and intellectual resources to develop products and systems that expand human possibilities. Adaptation and innovation are at the heart of technological practice. Quality outcomes result from thinking and practices that are informed, critical, and creative. Technology makes enterprising use of its own particular knowledge and skills, together with those of other disciplines.

From Page 32 NZC - Technology Learning area Statement.

Key links and resources

Technology Online

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

Senior secondary teaching and learning guides

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

TKI NCEA Technology resources for internally assessed standards

<http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards/Technology>

NCEA Technology on NZQA

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

NCEA Design and Visual Communication on NZQA

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

NCEA Computing and Digital Technologies on NZQA

<http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/subjects/computing-digital-technologies/levels/>

Vocational Pathways

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

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

VP Profile Builder

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

Secondary portal on TKI

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

Secondary middle leaders

<http://nzcurriculum.tki.org.nz/Secondary-middle-leaders>

Subject associations

<http://wp.nzgtta.co.nz/>

<http://www.hettanz.org.nz/>

<http://nzacditt.org.nz/>

<http://www.tenz.org.nz/>

<http://www.nzceta.co.nz/>

Topics covered in previous newsletters

Below is a summary of the main topics covered in the Secondary Student Achievement national technology newsletters over the last two years.

Term four 2014

- The importance of technological experiences
- Preparation for externally assessed standards
- End of year review and planning for the next year
- NCEA issues we are noticing in schools

Term three 2014

- Authenticity
- Key curriculum related resources
- Key resources for internally assessed standards
- Key resources for externally assessed standards and scholarship

Term two 2014

- Technological experiences
- Safety in technology education
- Authenticity
- UE literacy requirements

Term one 2014

- Using Technology Online
- Introducing the new safety in technology education guidance manual

Term four 2013

- Self review
- PAI: national and regional student achievement data
- Level 8 teaching and learning guides
- Podcast and webcast resources

Term three 2013

- Fitness for purpose in the broadest sense
- Preparing evidence for external assessment
- Digital technologies 91070 workshop resources

Term two 2013

- Vocational Pathways
- Teaching as Inquiry
- Inquiry with a focus on Maori students

Term one 2013

- Collecting, using, and interpreting data to inform teaching

The current and previous newsletters can be accessed on TKI at <http://nzcurriculum.tki.org.nz/Secondary-middle-leaders/Professional-learning-and-development/E-newsletters>

E-newsletters for middle leaders

Secondary student achievement facilitators send regular e-newsletters to New Zealand secondary middle leaders. E-newsletters are usually distributed once per term and contain guidelines for effective teaching and learning strategies, subject-specific literacy strategies, the latest information on standards alignment, useful links for resources and exemplars, feedback from national moderators, links to relevant readings, plus information about upcoming regional workshops and cluster sessions.

National newsletters 2014

Archived newsletters 2013

Archived newsletters 2012

If you wish to be added to the email list to receive this newsletter directly to your inbox please contact the technology facilitator for your region (refer to contact details on page one of this newsletter).

National technology workshops

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

Hamilton – 5th May

Tauranga – 7th May

Napier – 12th May

Gisborne – 13th May

Auckland (N & W) – 19th May

Auckland (S & E) – 20th May

Whangarei – 28th May

To register

To attend Auckland or Whangarei workshops, email Nicole Price at n.price@auckland.ac.nz
For the Hamilton, Tauranga, Napier, or Gisborne workshops, email Malcolm Howard at m.howard@auckland.ac.nz

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

New Plymouth – 6th May

Wellington – 7th May

Palmerston North – 13th May

Christchurch – 14th May

Balclutha – 20th May

To register

If you wish to attend workshops in New Plymouth, Palmerston North, Wellington, Christchurch or Balclutha, 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

These workshops are free

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 is provided. You will need to supply your own lunch and please bring a laptop.