

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 3 2014

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

In this issue we cover:

- A reminder about authenticity for external assessment as the year rapidly moves towards finalising external submissions
- The range of essential materials for secondary technology learning area.
 This was based on the number of questions regarding where to source information during the recent National workshops as well as some general links for literacy and ESOL

Ngā mihinui Malcolm and Cheryl National Co-ordinators - Technology

Authenticity

Adapted from http://www.nzqa.govt.nz/providers-partners/assessment-and-moderation/assessment-of-standards/generic-resources/authenticity/

What is authenticity

Authenticity is the assurance that evidence of achievement produced by a learner is their own. While this is a student's responsibility teachers also have a significant role to play in assuring structure and formative assessment and recognizing issues of authenticity during preparation of materials.

Strategies teachers can use to ensure authenticity include:

- modifying assessments available from publicly available sources
- changing the context of the assessment from year to year and embedding the learning in engaging contexts that are over the course of the programme of learning
- supervising the research process by including regular checkpoints
- requiring plans, resource material and draft work to be submitted with the final product
- keeping on-going work on site
- frequent conferencing to confirm a student's understanding
- being familiar with or controlling the resources available
- controlling group work by breaking the task into group and individual components
- Requiring a signature on an authenticity statement to highlight the issue for both parents and students
- Have regular feedback and review points in the preparation phase of the report.

Students are expected to

- Submit their own work to reflect their understanding of the context or topic
- Reference work appropriately. All information from sources other than the student's own work must be acknowledged at the place in the work that the information is used
- Interpret and rewrite the information in their own words and make meaning from synthesised material
- relate the information to a specific context or example
- comment meaningfully on the information to demonstrate their understanding.

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Curriculum related resources- TKI

The NZC

The starting point for all things to do with the NZ curriculum. http://nzcurriculum.tki.org.nz/

Technology Curriculum Support

http://technology.tki.org.nz/Technology-in-the-NZC/Publications/Technology-curriculum-support-documents



The Technology Curriculum Support document (October 2010 version) contains the explanatory papers that give background on the eight components of technology, and the indicators of progression for these components. The indicators have the achievemnent objective, teacher guidance, and indicators of what students should be able to demonstrate at each curriculum level.

Learning objectives for the specialist skills and knowledge strands http://technology.tki.org.nz/Technology-in-the-NZC/What-does-learning-in-technology-look-like/Indicators-Learning-Objectives



Learning objectives, teacher guidance, and indicators of progression are available for the specialist skills and knowledge components of technology, but note this information is only available at curriculum levels 6, 7, and 8 to align with NCEA. Teachers can use this to backwards map the requirements for junior programmes.

Progession diagrams

 $\frac{http://technology.tki.org.nz/Technology-in-the-NZC/What-does-learning-in-technology-look-like/Progression-Diagrams}{}$



The progression diagrams show the indicators of progression visually showing how each component progresses from level to level and the relationship between aspects within a level. Note in this format the teacher guidance is missing so it is useful to use the progression diagrams and the indicators of progression together.

The teaching and learning guide

http://seniorsecondary.tki.org.nz/Technology/Achievement-and-learning-objectives/Level-8



Use the navigation on the right side of the page to find the component of technology you are interested in and find teacher guidance, key messages, and ideas.

Technology Online - 'Technology in the NZC' tab

http://technology.tki.org.nz/Technology-in-the-NZC

The 'Technology in the NZC' tab contains most of the material mentioned above, plus other links and resources. Also explore the rest of the Technology Online website for case studies, teaching snapshots, and much more.

Useful links on TKI

Secondary Middle Leaders PLD

http://nzcurriculum.tki.org.nz/Secon dary-middle-leaders/Professionallearning-and-development



This page outlines the various PLD aspects across New Zealand for Secondary Middle leaders, including the facilitators, regions and the enewsletters that have been sent to schools.

Senior Secondary Guides Technology

http://seniorsecondary.tki.org.nz/Tec hnology

Useful information about the learning are, its structure, and key points for teaching across the disciplines



Technology Online

An essential resource portal for teaching guidance, curriculum support and snapshots and case studies



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

Resources for internally assessed standards-NZQA

The subject resources pages

The starting place for all NCEA resources. Part way down the page is the link to resources for internally assessed standards.

Technology subject resources at

http://www.nzqa.govt.nz/qualifications-

standards/qualifications/ncea/subjects/technology/levels/

Design and Visual Communication (Graphics) subject resources at

http://www.nzqa.govt.nz/qualifications-

standards/qualifications/ncea/subjects/graphics-dvc/levels/

Computing and Digital Technologies subject resources at

http://www.nzga.govt.nz/qualifications-

standards/qualifications/ncea/subjects/computing-digital-technologies/levels/

Clarifications

http://www.nzqa.govt.nz/qualificationsstandards/qualifications/ncea/subjects/technology/clarifications/



Clarification documents unpack the requirements of the achievement criteria where issues have been identified by moderators through external moderation. Note there are separate clarifications pages for Technology, DVC, and Computing/Digital Technologies – all accessible through the relevant subject resources page.

Assessment resources

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



Assessment tasks and schedules for the internally assessed standards – 'NZQA Approved'. Note the extra column with Vocational Pathway assessment resources. Teachers are expected to customise and contextualise these for their students rather than just print them off and hand them out!

Moderators newsletters

http://www.nzqa.govt.nz/qualificationsstandards/qualifications/ncea/subjects/technology/moderatornewsletters/april-2014/



A combined newsletter from the moderators for Technology, DVC, and Computing/Digital Technologies. Teachers who have 'liked' their subject Facebook page will receive an alert in their newsfeed when new newsletters or other resources have been published.

Conditions of assessment

http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards/Technology/Level-1-Technology



The assessment conditions for internally assessed standards, covers such things as whether evidence must be in writing or whether oral evidence is acceptable. Available for level 1, level 2, and level 3 on the appropriate page for each level.

Technology in the NZC

The curriculum support area of Technology online



http://technology.tki.org.nz/Technology-in-the-NZC

Please email any feedback to technology@tki.org.nz

The team are always pleased to hear from teachers in the field to help shape this resource portal

Technology in the News -

Looking for a snippet or an inspirational piece to energize your students? Try this section of the Technology Online site

http://technology.tki.org.nz/Technology-in-the-news

There is also a useful archive of news items



Some General TKI Links ESOL Online

http://esolonline.tki.org.nz, http://deliver.tki.org.nz/static/1758.html

Secondary Literacy online

http://literacyonline.tki.org.nz/Literacy-Online/Secondary-Literacy

Secondary Literacy online-Technology exemplar

This annotated exemplar helps teachers to support the literacy and language learning of students in technology.

http://literacyonline.tki.org.nz/Literacy-Online/Secondary-Literacy/Teacherneeds/Literacy-in-the-learningareas2/Annotated-studentexemplars/Annotated-exemplar-Technology

Success for All

http://www.ero.govt.nz/National-Reports/Including-Students-with-High-Needs-June-2010/

http://www.ero.govt.nz/Review-Process/National-Evaluation-Topics, http://www.minedu.govt.nz/NZEducati on/EducationPolicies/SpecialEducation/OurWo rkProgramme/SuccessForAll.aspx

NCEA externals and scholarship- NZQA

The subject resources pages

The starting place for all NCEA resources. Part way down the page is the link to resources for externally assessed standards, and further down is the link to scholarship.

Technology subject resources at

http://www.nzga.govt.nz/qualifications-

standards/qualifications/ncea/subjects/technology/levels/

Design and Visual Communication (Graphics) subject resources at

http://www.nzqa.govt.nz/qualifications-

standards/qualifications/ncea/subjects/graphics-dvc/levels/

For Computing and Digital Technologies externally assessed standards see the Technology subject resources page.

The assessment specifications

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



Published each year (in December the year before, and updated if required in March of the current year). Assessment specifications contain crucial material about the type of evidence required for external assessment and guidance about such things as authenticity. Assessment specifications for DVC are accessed via the DVC subject resources page.

Assessment reports and schedules

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



Published each year after the period for reconsiderations is over. The assessment report and schedule should be seen as essential reading in preparation for the next round of external assessment.

Assessment reports and schedules for DVC are accessed via the DVC subject resources page.

Exemplars

http://www.nzqa.govt.nz/qualificationsstandards/qualifications/ncea/subjects/technology/external-exemplars/



For technology look for the zip files with 2013 in the name. These are the latest exemplars sourced from marking student work in November 2013. For level 2 there are also exemplars from 2012, and for level 1 from 2011 and 2012. For DVC exemplars see the DVC subject resources page.

Technology scholarship

http://www.nzqa.govt.nz/qualificationsstandards/awards/scholarship/scholarship-subjects/scholarshiptechnology/

The scholarship standard, assessment specifications, markers reports, and exemplars are all at this link. Also see the webcast on technology scholarship (Refer to page 1 for the link).

Design and Visual Communication scholarship

All the resources related to DVC scholarship
http://www.nzqa.govt.nz/qualifications-
standards/awards/scholarship/scholarship-subjects/scholarship-graphics/

Useful links



The Youth Guarantee initiative provides young people more choices, ways, and places to achieve NCEA level 2 or equivalent.

http://youthquarantee.net.nz/

Biotechnology Learning Hub Bringing Biotechnology and Education together in New Zealand

This site features up-to-date examples of biotechnology in practice and supporting classroom resources.

http://www.biotechlearn.org.nz/



The New Zealand website for information about careers in technology, engineering and science.

http://www.futureintech.com/

Subject Association links & partnerships



http://wp.nzqtta.co.nz/



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



http://nzacditt.org.nz/



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



http://www.techlink.org.nz/index.cfm