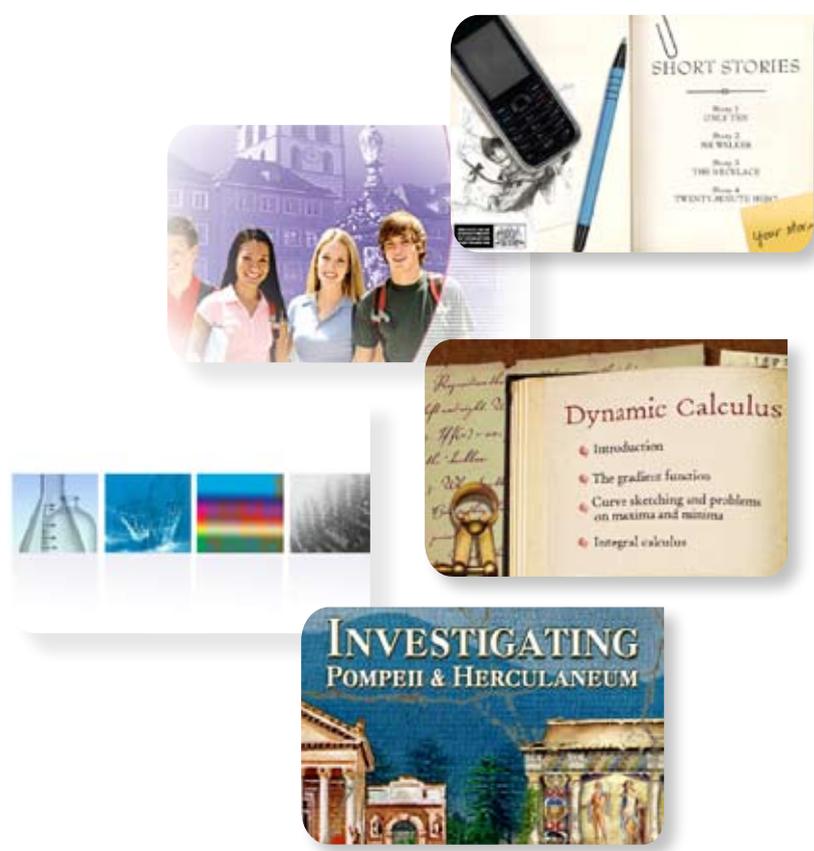# Support for Implementing the Digital Education Revolution

Years 9–12

CLI Products

To access these and other CLI resources, visit: *www.tale.edu.au > secondary*

Centre for Learning Innovation
Fostering and promoting innovation
in teaching and learning

Welcome

I'm pleased to provide this sample of CLI products and services to help teachers of Years 9–12 plan for implementing the digital education revolution and related initiatives.

CLI resources can be used in a range of teaching and learning contexts, are aligned to NSW Board of Studies syllabus outcomes, reflect state and national priorities, and support teachers in enhancing their skills for incorporating ICT into their practice.

CLI resources are easy to find on the Teaching and Learning exchange (www.tale.edu.au) and adhere to learning technology standards for interoperability and accessibility.

CLI materials:

- are freely available for teachers and students in DET schools
- are based on NSW Quality Teaching principles
- use a variety of interactive approaches and media
- include digital self correcting activities
- incorporate opportunities for analysis, synthesis and reflection
- are quality assured
- are copyright cleared for educational use.

CLI services include course materials, tools, resources and access to professional learning to support teachers in their professional growth.

For further information about the Centre for Learning Innovation and the support it provides for schools go to the CLI website http://www.cli.nsw.edu.au/cli/cli_you/teachers/schteacher.shtm

Karen White
Assistant Director
Centre for Learning Innovation

December 2008

Materials developed by the Centre for Learning Innovation are available through the Teaching and Learning exchange (TaLe) www.tale.edu.au (NSW DET access only).

The resource collections *Sites2See, Writers Talk, Masterclasses,* and *Science Talk* are also available from the Parents & Community page on TaLe (public access).

Building capability

Connected Learning Advisory Service (CLAS)

The Connected Learning Advisory Service (CLAS) is an online, web-based tool to help teachers reflect on and enhance their use of information and communication technologies (ICT) in their teaching practice. It can provide effective support for whole-school professional learning around the effective use of information and communication technologies for teaching and learning. CLAS:

- helps teachers assess their own use of ICT for teaching and learning
- provides links to examples of good practice, professional learning activities and online resources, and
- supports teachers' capacity to meet and maintain accreditation with the NSW Institute of Teachers.

CLAS is available to all teachers in NSW public schools. To access CLAS:

- log in to the DET portal http://portal.det.nsw.edu.au
- click on the 'My applications' tab near the top of the page
- click on the link to CLAS Schools.

For more details, visit: www.cli.nsw.edu.au/cli/e-learning/clas.shtm

Intel Teach Program

The *Intel Teach Program* supports teachers in integrating ICT into the classroom. The focus is on new communication tools and collaborative learning technologies, including wikis, blogs, collaborative editing websites, social bookmarking, and pedagogical approaches to the incorporation of tools such as interactive whiteboards.

In 2009 there are two courses available to teachers in DET schools. Course attendance is free (release and relieving costs need to be met by the school).

The first course, *Intel Teach Essentials Online* combines face-to-face workshops with online work. Teachers learn how, when and where to incorporate ICT tools and resources into teaching. This course will run in Term 1, 2009 with the face-to-face component held at the Centre for Learning Innovation. Expressions of interest are also invited for courses to be run in the non-metropolitan regions: email IntelTeach@det.nsw.edu.au

The second course, *Intel Teach Thinking with Technology* builds on effective ICT integration with online tools to help sharpen students' higher order thinking skills and equip teachers with strategies and project ideas to target and assess those skills. The course will be available in Term 2, 2009.
Email IntelTeach@det.nsw.edu.au to register your interest.

Information on Intel courses for 2009 is available from:
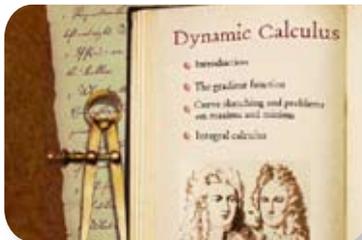http://cliwww.det.nsw.edu.au/cli/connected_learning/connected_learning.shtm

Digital resources

HSC Belonging *(Standard and advanced) and (ESL), English Stage 6*

Resources designed to help students analyse the concept of belonging. The ESL resource has activities on the novel, *The China Coin*, and the Making Multicultural Australia website. The Standard and Advanced resource has activities on the novel *Swallow the Air*. Both feature Interactive whiteboard material.

Search on TaLe by title or numbers: 7524 and 7669

Dynamic Calculus *Mathematics Stage 6*

A resource that combines a collection of GeoGebra interactive learning objects that make the delivery of calculus come alive, with material explaining the significance and history of calculus, including the 'calculus controversy'.

Search on TaLe by title or number: 8083

Languages: Speaking and Listening *Stages 5–6*

Two suites of resources, in eight languages, that enable students to develop skills by using audio, text and flash animations, based on the six themes of the Stage 6 Beginners syllabuses.
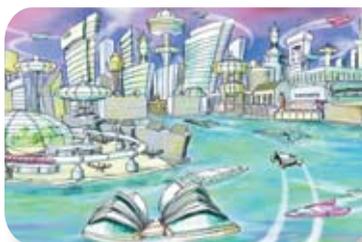
Search on TaLe by language: Chinese, French, German, Indonesian, Italian, Japanese, Modern Greek and Spanish

Physics Explorer *Science Stage 6*

A resource that covers the historical development of ideas, with demonstrations of often poorly understood or difficult to demonstrate concepts. The areas covered are electromagnetic induction, cathode ray tube development and superconductivity.

Search on TaLe by title or number: 4786

Future World *Geography Stage 5*

In this resource students explore current and future population trends and make connections with urban planning and ecological sustainability. Divided into three sections—'People', 'Place' and 'Space'— *Future World* includes video clips, a population pyramid generator and geographers' impressions of the future.

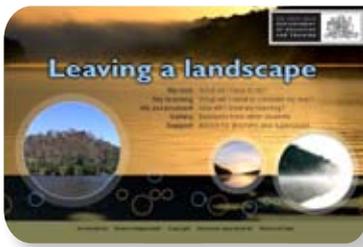*Search on TaLe by title or number: 5074*

Investigating Pompeii and Herculaneum
Ancient History Stage 6

This resource provides activities, source readings, interactive maps, photos, videos and links for Ancient history core study, Cities of Vesuvius – Pompeii and Herculaneum. Set within a framework for historical research, it encourages students to critically evaluate the available sources through 16 sub-topics.

Search on TaLe by title or number: 4621

Leaving a Landscape *Visual Arts*

In this resource students learn about landscape artworks through historical and critical studies and through their own art practice. The resource focuses on the art practice of Arthur Boyd and celebrates his gift of the Bundanon properties to the Australian people.

Search on TaLe by title or number: 5015

Textiles Technology Resources *Stage 5*

Learning objects on topics of design ideas, drawing, planning projects, using patterns, quality control, project evaluation and textile deconstruction. Activities include the development of an electronic folio.

Search on TaLe by title or number: 5485

Crossroads *Stage 6*

Two resources to support and help implement the Crossroads program in schools — *Crossroads: Intimate Relationships* and *Crossroads: Drug Issues*. Both resources feature video footage and interviews with young people, audio and Flash animations and interactive activities alongside extensive teacher resources.

Search on TaLe by title or numbers: 5296 and 6808

Sites2See *Across KLA's and Stages*

Sites2See pages highlight selected websites and supporting resources, with advice to teachers on how to use them. Topics range from specific skills, such as using spreadsheets and databases in science and mathematics, and Activstudio support for teachers, to broader subjects, such as climate change, and the apology to Australia's indigenous peoples.
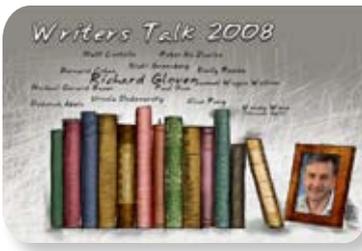
Search on TaLe: Sites2See

Activstudio flipcharts *Across KLA's and Stages*

Interactive whiteboard (IWB) resources in a range of subject areas, with downloadable resources for Geography, History, PDHPE, and the English Area of Study *Belonging*.

Search on TaLe: Activstudio flipchart

Learning from the experts

Writers Talk 2007 and 2008 *English and History Stages 5–6*

Writers Talk 2008 builds upon *Writers Talk 2007*, and features a series of short video interviews with selected writers from the Sydney Writers' Festival. Each writer talks about their background, books and approaches to writing.
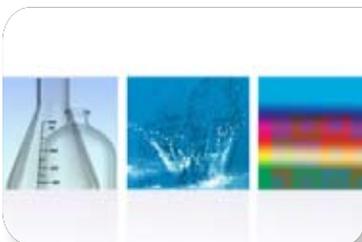
Search on TaLe by title or numbers: 7628 and 6130

Masterclasses 2008 *Across KLA's and Stages*

Interviews, presentations and structured lessons. Guests include Lisa Forrest on the 1980 Moscow 'Boycott' Olympics; Ross Gittins on economics; Lucy Snowball on crime statistics; Guan Wei on his art practice; astronomer Fred Watson; astro-photographer David Malin; children's book author Andy Griffiths; and palaeontologist Robert Jones.

Search on TaLe by title or number: 7888

Science Talk 2007 and 2008 *Stages 5–6*

Interviews and masterclasses with many of Australia's prominent scientists. The series features 20 scientists in areas of astronomy, astro-imaging, marine biology, benthic marine ecology, bio-chemistry related to medical research, chemistry related to drug detection, chemistry related to materials science, climate change science, geology, medical research, palaeontology, phytoplankton ecology, plant science, police forensics, simple experiments, psychology and scepticism, social psychology and space science.

Search on TaLe by title or numbers: 6433 and 7890

Research Zone: Senior History and Society and Culture *HSIE Stage 6*

Two distinct and comprehensive resources. Students are taken through the process of defining, locating, selecting, organising and presenting their research project for Senior History, or research for Society and Culture. The Senior History resource features interviews with historians William Dalrymple and Peter Fitzsimons.
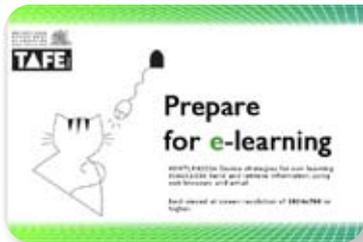
Search on TaLe by title or numbers: 6149 and 8084

CLI tools
for teaching and learning

Your Guide to Social e-learning

This resource explains and demonstrates how tools such as blogs, wikis, social bookmarking, podcasting and virtual conferencing can be best used in teaching and learning. Includes case studies, 'how to' guides and sample activities.

Search on TaLe by title or number: 7845

Prepare for e-learning

E-learning offers new ways for students and teachers to access learning materials and to communicate. This resource helps explain some of the basics.

Search on TaLe by title or number: 6706

Jan Zanetis Masterclass — videoconferencing technology in schools

Jan Zanetis, Global Marketing Manager for Education at Tandberg, discusses the use of videoconferencing technology in education. Includes advice for teachers and a list of websites for help in using this technology.
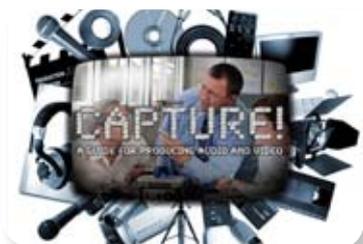
Search on TaLe by title or number: 7845

Build a resource collection

A resource to help teachers bring together the resources they want their students to use, to sequence resources in a way that will help students learn, and to give students material they can work through at their own pace and in their own way.

Search on TaLe by title or number: 6676

Capture!

A guide and support for teachers in the production of audio and video files for quality low-cost resources. Includes advice, information, tips and useful weblinks. (This resource will be available in Term 1, 2009.)

Search on TaLe by title or number: 8228

English

Title	Search No.	Title	Search No.
Short Stories	5386	Youth Theatre	5361
Visual Humour	5263	Teens in Texts	4634
Indigenous Voices	8136	Crime Films	4637
Historical Fiction	4641	Odd One Out	4650
Passionate Poetry	3155	Taming Kat	3174
Worlds	7502		

Maths

Title	Search No.	Title	Search No.
Straight Lines	5345	The Geometers Warehouse	6939
Parabolas	5352	Curve sketching	3734
The Financial Wizard's Apprentice	6678	Binomial theorem and binomial probability	4677
Maths Busters (videos)	7108		

Science

Title	Search No.	Title	Search No.
SkooolTM Interactives	(by title)	Murder under the Microscope	(by title)
Student Research Project	3788	Forces and Fields	(by title)
Chemical Composition	6765	Physics Explorer Preliminary	6165
Chemystery Solutions (videos)	7109	Water Quality	(by title)

Creative Arts

Title	Search No.	Title	Search No.
Artists Studies	7976	Contemporary Sculptors	7824
Sculpture by the Sea study	7841	Art: Personal or Public?	7075
Layers and Meaning	5898	Site, Structure, Significance	5066

HSIE

Title	Search No.	Title	Search No.
About GIS (Geography)	7624	Fire Challenge (Geography)	5403
Exploring Thera (Ancient History)	4864	People, Power and Politics (History)	3840
Exploring Persepolis (Ancient History)	3971	The Snowy (History)	5455

TAS

Title	Search No.	Title	Search No.
HSC Agriculture (various)	(by title)	Product illustration	7673
Architectural Drawing	6622	Growing an Idea	5212
Design Cafe	3169		

PDHPE

Title	Search No.	Title	Search No.
Road safety Learncast event: Hit the Road	7650	Hit the road: Exploring road injuries as a health priority	7656
Exploring Communities	3200	Looking After Myself	4833

Languages

Title	Search No.
Gift-giving, in seven languages	by language

Find resources on TaLe
www.tale.edu.au