

Mathematics Links

NSW Department of Education and Training

Curriculum K-12 Directorate

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Email Alert

Welcome to Mathematics Links September 2006

HT Mathematics Links is an electronic update for mathematics faculty leaders informing on the latest additions to the *Curriculum Support* website, professional learning opportunities and links to relevant resources.

Curriculum Support updates

- Bomaderry High School's complete 7-10 mathematics teaching program is now available for download from the website at this link
http://www.curriculumsupport.education.nsw.gov.au/secondary/mathematics/years7_10/programming/bomaderry_hs/index.htm

Thank you to Rob Russell and his mathematics faculty for sharing this work with teachers

- With Year 12 heading down to the last few weeks of their schooling, Stage 6 HSC mathematics revision and material will be high on your list and theirs. The Curriculum Support website offers numerous links for resources:

Stage 6 teaching ideas

- http://www.curriculumsupport.education.nsw.gov.au/secondary/mathematics/years11_12/teaching/index.htm

- **The BOS Stage 6 mathematics symposium** was held on Saturday 19 August at Georges River College Oatley Senior Campus. Over 80 invited participants attended with six speakers giving 30 minute dissertations on Stage 6 perspectives and two group discussion sessions for further feedback. Peter Gould's paper is attached to this email for you to read.

Professional learning opportunities

Curriculum Support Workshops – New dates!!

Curriculum K-12 Directorate, Mathematics unit are supplementing and supporting regional professional learning activities with an additional **Talking patterns and algebra Stage 3 and 4** one-day workshop and a **HT mathematics** two-day workshop in Term 4 Semester 2. For more information about these workshops go to 7-12 mathematics professional learning opportunities semester 2 (Terms 3 and 4) 2006 available at

<http://www.curriculumsupport.education.nsw.gov.au/secondary/mathematics/prolearn/index.htm>

Financial Literacy Foundation

The Ministerial Council of Education, Employment and Youth Affairs in May 2005 developed the Financial Literacy Framework for years 3, 5, 7 and 9 to be implemented in

2008 in English, Mathematics, Civics and Citizenship, Information and Communication Technology and Science.

The Financial Literacy Foundation is currently holding National meetings to find out what support teachers need for implementation and will be in Sydney on 11 September and in Lismore on 12 September. The attached flyers provide the information on all our meetings. I have also included a registration form for anyone interested in attending.

If teachers cannot attend the meeting, the following website has the professional development survey guide and survey. They can download the survey form, complete and return to us by the due date.

<http://www.understandingmoney.gov.au/content/education/news/NationalProfessionalDevProject.asp>

Thank you for your support.

Kind regards,

Maisie Warburton

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Financial Literacy Foundation

The Treasury, Langton Crescent Parkes ACT 2600

Free online mathematics resources

- **Websites for Roman Numerals**

Roman Numerals

<http://www.beaconlearningcenter.com/WebLessons/RomanNumerals/default.htm>

This tutorial will teach you how to count using Roman numerals.

Roman Numerals WebQuest

<http://www.kn.att.com/wired/fil/pages/webromannuce.html>

In this WebQuest you will be researching Roman numerals. Each student will answer the questions and record answers in the WebQuest Journal provided by your teacher.

Count Like the Romans

<http://www.kn.att.com/wired/fil/pages/huntromannula.html>

Fun Roman Numeral information, games and quizzes.

Roman Numerals

<http://www.quia.com/custom/3608main.html>

Try these math activities to help you master Roman Numerals. Play a matching, flashcard and concentration game.

- **Looking for good WebQuests? Try TeacherWeb's extensive collection**

TeacherWeb Inc., a provider of web site templates for educators, recently announced that it has collected its ten thousandth WebQuest from contributing educators. As of press time, more than 3,300 of these WebQuests reportedly were available to teachers free of charge through a searchable index on the TeacherWeb site, with more being added each month. A WebQuest is a teaching tool designed by teachers that allows students to work together or individually on the web to complete a specific, open-ended research project. In addition to gaining in-depth knowledge of the subject matter, students learn higher-order thinking, teamwork, internet, and presentation skills. WebQuests on math, science, art, foreign languages, literature, and much more are available through the TeacherWeb site. Teachers can search by subject, grade area, and keyword. The WebQuests begin with an introduction and present students with a task. Students then assume different roles in the WebQuest to tackle the task at hand.

<http://teacherweb.com/TWQquest.htm>

- **The Standards Site (Department for Education and Skills, UK)**

The National Numeracy Strategy has been developing and trailing Interactive Teaching

Programs (ITPs) since January 2002. Thirty two ITPs have been placed in the teaching resources area of this website. A further batch of ITPs, which are under development, will be released later in 2005. Each ITP has an introductory guide which shows how to operate the program. Further support on how to use them in the classroom to teach mathematics is being developed.

<http://www.standards.dfes.gov.uk/primary/publications/mathematics/itps>

- **Interactive activities for mathematics**

Excellent activities to use on an interactive whiteboard. This resource has been created by Debbie Jones (a Qld teacher) for teachers seeking mathematics resources to use on an interactive whiteboard or computer. Material on this site is links to other web sites and the author takes no creative credit for any of the activities or links.

<http://user.digisurf.net.au/jones4/>

- With the HSC final exams getting closer by the day, the **NSW HSC Online** website has some relevant current articles that make useful reading for both students and teachers.

The 2005 HSC Study Guide, available at <http://hsc.csu.edu.au/maths/>

Learning from past mistakes (HSC 2005) and advice for 2006 article, available at <http://hsc.csu.edu.au/maths/news/2385/index.html>

- How can students achieve the best possible performance band for the HSC? The **HSC Standard packages** are now available, at no cost, on the Assessment Resource Centre (ARC) website <http://arc.boardofstudies.nsw.edu.au/go/hsc/std-packs/> Scroll down the page to General Mathematics, Mathematics, Mathematics Extension 1 and Extension 2. Students need to be aware of the standard of their responses and how they compare with responses that achieve a higher performance band.

- **Paper models of polyhedra** - Polyhedra are beautiful 3-D geometrical figures that have fascinated philosophers, mathematicians and artists for millennia. On this site are more than eighty paper models available for free. Greek prefixes and meanings are explored and historical and scientific approaches are excellent for senior mathematics students. Visit the site at <http://www.korthalsaltes.com/>

Don't forget to open the attachments.

Til next month!

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