



Mathematics 7-12 professional learning activity

## Transforming Numeracy in the Middle Years – Combined Course

**Thursday 4 June 2009 (Week 6 Term 2)**  
**Dubbo (Event: 8194)**

**Wednesday 24 June 2008 (Week 9 Term 2)**  
**Newcastle (Event: 8195)**

This **one day** workshop combines the two workshops:

1. Transforming Numeracy in the Middle Years – Tape Diagrams
2. Transforming Numeracy in the Middle Years – Working Mathematically with Patterns in Number.



Workshop sessions will include an:

- introduction to tape diagrams. A tape diagram offers students a thinking tool to visually represent a mathematical problem and transform the words into an appropriate numerical operation
- analysis of lessons that investigate patterns in number
- overview of Newman's error analysis
- overview of the *Lesson study* model.

**NSWIT Course Code:** 151CUK058

### NSWIT Standards

Standard addressed by course	Brief description of course content and how it addresses the Element and/or Standard
1.2.3	Participants use their knowledge of the NSW Mathematics syllabus and Newman's error analysis to design and implement lessons that assist students to engage more deeply with word problems in familiar contexts.
3.2.4	Tape diagrams provide a structure for students to analyse and solve word problems and assist them to move through the comprehension and transformation stages identified by Newman's error analysis.
4.2.2	Use questions and classroom discussion effectively to probe students' understanding of the content.
6.2.1	Reflect critically on teaching and learning practice to enhance student learning outcomes.

**Teachers who wish to register for this workshop need to be approved by the Principal to attend.**

This workshop is available to NSW DET teachers only.

Registrations close **five** working days before the scheduled workshop.

## **Workshop registration**

To register for this workshop follow this link [↗](#)

[http://www.curriculumsupport.education.nsw.gov.au/secondary/mathematics/prolearn/pl\\_activity.htm](http://www.curriculumsupport.education.nsw.gov.au/secondary/mathematics/prolearn/pl_activity.htm)

Once registration is completed, participants will receive workshop confirmation, details of the venue and an agenda for the workshop.

**A registration fee of \$110 per day (incl. GST) for government schools will be charged for each participant. This fee includes morning tea and lunch and all workshop materials.**

**Time: 9am – 3:30pm**

For further information contact:

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