

# Working Mathematically in **PATTERN and ALGEBRA**

**Facilitator:**  
**Doug Williams**

For Primary and Secondary Teachers - Years 3 to 10

9.30am - 3.30pm (Reg. from 8.30am)

**Thursday August 11th, 2011**



6 PD hours

**Dingley International Hotel**  
**334 Boundary Rd, Dingley**

**Free Parking on site!**

**About the facilitator.....**

Doug Williams taught mathematics at both Primary and Secondary level from 1970 to 1992 when he became a freelance consultant working in mathematics education. He has been involved in many ways over many years with the AAMT and MAV having been president of the MAV and editor of both its primary and secondary journals. He has written for an extensive number of journals and authored several books. His most recent articles have been published in the 2009 December Conference papers of the MAV, Mathematics Teaching, March 2010, Association of Teachers of Mathematics (UK) and Primary Mathematics, Spring 2010, The Mathematical Association (UK). Doug's presentations at these sessions are from his Maths on the Move series of workshops.

Mathematicians solve problems ... and the process they use to do so is completely identifiable. As we struggle to create curriculum suitable for the students of today, and the future they might face, teachers are learning to embed content within the Working Mathematically process.

In the context of **Pattern and Algebra** activities, we will identify and apply this process. We will go on to experience teacher-created structured units in **Pattern and Algebra** which include hands-on problem solving, whole class investigations and integrated software.

This workshop will also include research evidence confirming that an integrated approach to Working Mathematically does bring significant improvement in student numeracy *and* literacy. Participants will have significant time to plan a unit of their own with the help of the workshop resources.

*Please try to bring a notebook computer.*

**Please Note:** Participation includes provision of an appropriate resource to take back to school. Part of your program will include time to know this resource well enough to (a) trial it immediately with students, (b) use it as 'show and tell' to background other staff in what you have learnt.

## Critical Agendas

**Postal address:** P.O. Box 1427 Geelong 3220  
**Phone:** 1800 638 012 **Fax:** 1800 638 021  
**Email:** admin@criticalagendas.com.au  
**Website:** www.criticalagendas.com.au

**COST:**  
\$259 (GST Incl.)

**Cost includes:** Program, any issued notes, participation certificate, morning tea and lunch.

*Book Now by Fax, Mail or Online!*

*A confirmation email will be sent to each applicant*

### Working Mathematically in **PATTERN** and **ALGEBRA**

Thursday 11th August, 2011

Dingley International Hotel, Dingley, Vic

### TAX INVOICE

ABN 14 108 211 703

6 PD hours

COST: \$259 (GST Incl.)

#### REGISTRATION FORM

(May be photocopied)

Please complete and fax or mail to

**CRITICAL AGENDAS**  
P.O. BOX 1427 GEELONG 3220

FAX: 1800 638 021

**Name/s (CAPITAL letters please!)**

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

**School / Employer**

**Address** \_\_\_\_\_

**Sub/Town** \_\_\_\_\_ **Ph** \_\_\_\_\_

**Postcode** \_\_\_\_\_ **Fax** \_\_\_\_\_

**Mob. Phone**

1. \_\_\_\_\_ Email \_\_\_\_\_

2. \_\_\_\_\_ Email \_\_\_\_\_

3. \_\_\_\_\_ Email \_\_\_\_\_

4. \_\_\_\_\_ Email \_\_\_\_\_

5. \_\_\_\_\_ Email \_\_\_\_\_

Please specify any special dietary needs: \_\_\_\_\_

**School Order No. (if wishing to be invoiced)** \_\_\_\_\_

**Name of Contact for Invoice:** \_\_\_\_\_

**Contact Email:** \_\_\_\_\_

**OR** Enclosed is payment for \$ \_\_\_\_\_ payable to **CRITICAL AGENDAS** or please debit my

Mastercard  Visa for \$ \_\_\_\_\_

Card No.

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**Name on Card** \_\_\_\_\_

**Exp Date** \_\_\_\_\_ **Signature** \_\_\_\_\_

#### BOOKING CONDITIONS

No applications for this program will be accepted after all vacancies have been filled. Unsuccessful applicants will have their monies refunded in full. Cancellation prior to two weeks before the program date (cut-off date) will incur a 15% service charge per applicant. This program will be payable in full for cancellations made on or after the cut-off date or for failure to attend the program. All cancellations must be in writing and emailed to us. In the event of insufficient applications this program will not proceed and registration monies be fully refunded. In the event of this program being cancelled due to unforeseen circumstances registration monies only will be refunded as Critical Agendas will not accept liability for the payment of any other associated costs. Critical Agendas reserves the right to vary the advertised programs prior to commencement.