

Mathematics Teachers Conference 2006

Theme: *Enhancing Mathematical Reasoning*

1st June 2006

National Institute of Education

1 Nanyang Walk

Singapore

Jointly organized by:

- Association of Mathematics Educators
- Mathematics and Mathematics Academic Group,
National Institute of Education, NTU

Programme

0800 – 0845 h	Registration
0900 – 0930 h	Opening of Conference
0930 – 1000 h	Tea Break
1000 – 1100 h	Keynote I
	Primary - <i>The nature of mathematical reasoning & how to teach it</i> Dr Yeap Ban Har & Mr Lee Ngan Hoe
	Secondary - <i>Enhancing mathematical reasoning at secondary school level</i> A/P Wong Khoon Yoong
	Junior College - <i>Mathematical reasoning in pre-university education</i> Prof Ling San
1100 – 1200 h	Keynote II
	Primary - <i>The nature of mathematical reasoning & how to teach it (contd)</i> Dr Yeap Ban Har & Mr Lee Ngan Hoe
	Secondary - <i>Enhancing students' reasoning via thoughtful problem-solving activities</i> A/P Berinderjeet Kaur
	Junior College - <i>Mathematical reasoning: From secondary to pre-university mathematics education</i> Dr Toh Tin Lam
1200 – 1400 h	Lunch & Tour of Stalls (Books & Teaching Materials)
1400 – 1600 h	Concurrent Workshops - Participants to attend one

Primary

P1 - **Developing mathematical reasoning – The role of calculators** by A/P Ng Swee Fong

P2 - **Using short open-ended questions to develop and assess mathematical reasoning** by A/P Foong Pui Yee

P3 - **Enhancing mathematical reasoning through journal writing in the primary math classroom** by A/P Douglas Edge & Mr Eric Chan

P4 - **Games in primary mathematics classrooms** by A/P Koay Phong Lee

P5 - **Generating mathematics investigative tasks from a given stem** by Miss Chua Kwee Gek

Secondary

S1 - **Geometric reasoning through folding circles** by Ms Teo Soh Wah & Mrs Tan Kum Fong

S2 - **Mathematical reasoning in algebra** by Dr Toh Tin Lam

S3 - **Using investigative tasks to enhance mathematical reasoning** by Mr Joseph Yeo B.W.

S4 - **Strategies to enhance students' reasoning in mathematics at the secondary level** by Dr Jaguthsing Dindyal

S5 - **Engaging lower secondary pupils through mathematical reasoning** by Dr Joseph Yeo Kai Kow

S6 - **Use of IT in the teaching of statistics** by A/P Yap Sook Fwe

Junior College

J1 - **Using a graphing calculator to extend mathematical reasoning skills** by Dr Ng Wee Leng

J2 - **Newton's binomial series and the computation of pi** by Dr Paul Shutler

1600 – 1630 h

Tea break

1630 – 1700 h

Closing address & presentation of tokens of appreciation.

Abstracts of keynote lectures and workshops are available at our webpage: <http://math.nie.edu.sg/ame/>

You may also download registration form and details.

You are advised to register early as places are limited.

Closing date for conference registration: **Saturday 15th April 2006.**

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Venues of Lectures & Workshops

Registration of Conference – 7.45 am onwards Outside NIE Lecture Theatre 1

Opening of Conference: - 9.00 am @ NIE Canteen

Tea – break: – 9.30 am @ NIE Canteen

Keynote sessions: 10.00 – 12.00 noon

Level	Venues
Primary	NIE 2-01-LT 7 / NIE 3-01-LT 8
Secondary	*NTU LT 19A
Junior College/ Polytechnic	NIE 2-01-LT 5

* Teachers to assemble outside NIE LT1. Ushers will lead them to NTU LT 19A

Lunch – 12.00 noon till 2 pm @ NIE Canteen

Workshops: 2.00 – 4.00 pm @ NIE premises

	Workshop	Venue
J1	Using a graphic calculator to extend mathematical thinking	7-01-LT 4
J2	Newton's binomial series and the computation of pi	7-01-TR 57
P1	Developing mathematical thinking – the role of calculators	5-01- TR 43A
P2	Using short open-ended questions to develop and assess mathematical thinking	7-01-TR 58
P3	Enhancing mathematical reasoning through journal writing in the primary math classroom	7-01-TR 63
P4	Games in primary mathematics classrooms	7-01-LT 3
P5	Generating mathematics investigative tasks from a given stem	3-01- LT 9
S1	Geometric reasoning through folding circles	2-01- LT 6
S2	Mathematical reasoning in algebra	5-01-LT 11
S3	Using investigative tasks to enhance mathematical reasoning	7- 01-TR 61A
S4	Strategies to enhance students' reasoning in mathematics at the secondary level	7-01-TR 63A
S5	Engaging lower secondary pupils through mathematical reasoning	7-01-TR 64
S6	Use of IT in the teaching of statistics	7-B1- 14

Tea-break – 4.00 – 4.30 pm @ Foyer of LT1

Closing Ceremony & Presentation of tokens of appreciation by Director of NIE – 4.30 pm @ NIE Lecture Theatre 1