

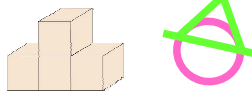
# IMPARTING PROBLEM SOLVING STRATEGIES TO STUDENTS VIA MATS MAGIC & PUZZLE FOR PRIMARY TEACHERS

To effectively and intelligently solve mathematical problems, students should use various thinking skills and heuristics to help them. We have identified **12 problem solving strategies** which are commonly used to solve mathematics problems. These strategies will be shared in 2 different ½ day workshops with each workshop covering 6 strategies. In these interactive and thought-provoking workshops, you will be shown how you can easily impart these strategies to your students **using heuristics such as interesting puzzles, card tricks and magic**. Each problem solving strategy will be illustrated using two different activities, thus allowing you to impart the strategies to both lower and upper primary students in fun and magical ways.

## Workshop A: 1 Jun 2010 (9am-12.30pm)

It will cover the following 6 problem solving strategies:

- 1) Intelligent guessing and testing
- 2) Looking for Patterns
- 3) Simplifying the Problem
- 4) Making a Systematic List/Table
- 5) Elimination
- 6) Acting it out/Experiment with real object



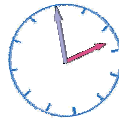
Teachers who attend both sessions will get a set of M-wizy card.

It will cover topics: **Number sense, Number patterns, Addition, Subtraction, Multiplication, Division, Maths operations, Fraction, Calendar, Geometry, Cube**

## Workshop B: 1 Jun 2010 (1.30-5pm)

It will cover the following 6 problem solving strategies:

- 1) Restating the Problem in another way
- 2) Working Backwards
- 3) Drawing a Diagram
- 4) Using logic
- 5) Relating a new problem to familiar problems
- 6) Adopting a different Point of View – Thinking out of the box



It will cover topics: **Addition, Subtraction, Multiplication, Division, Maths operations, Arrangement, Units of Measurement, Area, Money, Time, Ascending and Descending Numbers**

### Feedback from teachers who have attended:

- *Very interesting and lots to take away and apply in classroom. –Deepa Vaswani, Ngee Ann Pri*
- *It gives me ideas on how to arouse pupil's interest in learning and it is thought-provoking. – Geylang Methodist Sch*
- *Interesting and wonderful magic to entice pupils. Creative ways of solving problems - inspiring. – Tan Ser Huay, Henry Park Pri*

### Synergyst has 2 other workshops for teachers:

"Maths Magic & Fun in Classroom" and "Fun Maths Lessons with Puzzles and cards" are conducted for teachers publicly and **in-house** upon request. We also have Creative Maths Enrichment for students. For details, please email: [lisung@synergyst.com](mailto:lisung@synergyst.com).

### About the speaker

**MDM. TEOH POH YEW** is a dynamic and creative mathematics educator, who firmly believes that everyone can learn and enjoy Mathematics. With her unique expertise, she weaves a web of magic so that mathematics emerges as the ideal subject to stimulate creativity, enhance thinking skills, and sharpen problem solving abilities. Mdm Teoh conducted numerous talks/workshops on creativity, mathematics education and early education for teachers, lecturers, parents and students in Singapore, USA, Malaysia, Germany, Hong Kong, Thailand, Indonesia, the Philippines, Bulgaria, India, Taiwan and China. She has also developed Creative Maths – a unique Math enrichment that uses magic, puzzle, game and paper craft to teach.

### About the Organiser

**Synergyst** is a training consultancy firm passionate in promoting *Professional Development of Teachers & Experiential Learning of Students* through Creative Teaching and Learning. Working with a pool of enlightened and world-renowned professionals, we provide a wide range of services, including workshops, enrichment programmes, exciting science and maths shows, and educational trips to Thailand, China and Malaysia. Our education workshops have been well attended by over 3500 local teachers. We also conduct workshops for students on Creative Maths where we use magic, puzzles and games to strengthen students' math concepts and develop their mathematical thinking.

Please register me for "**Imparting Problem Solving Strategies to Students**", **PSB Academy** (TBC, Behind Tiong Bahru MRT stn)

#### Workshop A: 1 Jun 2010, 9am – 12.30pm

- Normal rate of S\$95 nett/pax/workshop
- Group rate\* of S\$85 nett/pax/workshop
- Past participant\*\* rate of S\$70 nett/pax/workshop

#### Workshop B: 1 Jun 2010, 1.30pm – 5pm

- Package rate of S\$180nett/pax for a pax registering both workshops
- Group\* Package rate of \$150 nett/pax for both workshops
- Past participant\*\* Package rate of \$140 nett/pax for both workshops

\* Group rate applies for 3 or more teachers registering for the same workshop from the same school

\*\* Past participant rate applies for those who attended our Maths Magic workshop conducted by Mdm Teoh

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For registration, please fax, mail or email your particulars to and make your cheque payment payable to **Synergyst Pte Ltd**, 10 Tampines Road S(535065) . Upon receipt of registration, an acknowledgement email will be send to you and any request for cancellation will be charged a 50% admin fee and must be made in writing, no later than 7 working days before the event. In the event of cancellation less than 7 working days or if participant fails to attend, the participant is liable for the full fee. If you do not hear from us within 3 days after your registration, please contact us. Synergyst reserves the right to amend, postpone or cancel the event due to unforeseen circumstances. (WEB)

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