

2010 Olympiad Results

NMOS

Gold:15
Silver: 43
Bronze: 83

SMOPS

Gold:19
Silver: 34
Bronze: 65

APMOPS

Individual: 10th
Two positions:(11th to 40th)

2009 SMO Results

SMO (Junior)

Gold:13
Silver:15
Bronze:15

SMO (Senior)

Silver:1
Bronze:3



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147
Singapore 521488
Tel: 9181 3492 / 6783 3218 / 6781 9325
Email: matharena@gmail.com
Homepage: www.matharena.com.sg

Recommended Maths Olympiad Training Schedule

| | Time | Course |
|---------------|----------------------------------|---|
| Start Point A | P3 Term 2 | Introduction to Maths Olympiad (5 sessions followed by a selection test) |
| | P3 Term 3/4 | P3 Maths Olympiad (12 sessions) |
| | P4 Term 1 - 2 | Module 1 and 2 (2 x 12 sessions) |
| | P4 Last Week of June | Take part in the National Mathematical Olympiad of Singapore (NMOS) for exposure |
| Start Point B | P4 Term 1 or 2 | Introduction to Maths Olympiad (5 sessions followed by a selection test) <u>For Schools that did not start in P3</u> |
| | P4 Term 2-3 Or P4 Term 3-4 | Module 1 and 2 (2 x 12 sessions) |
| | P5 Term 1 - 2 | Module 3 and 4 (2 x 12 sessions) |
| | P5 Last Week of June | Take part in NMOS with a medal chance. |
| | P5 Term 3 or 4 | Begin preparation for Singapore Mathematical Olympiad for Primary Schools (SMOPS) and the Raffles Institution Primary World Mathematics Contest (RIPWMC) using Module 5 (15 sessions) |
| | P6 Term 1 | Module 5 (12 sessions) |
| | P6 April | RIPWMC and SMOPS |
| | P6 Term 3 | A* Achiever Programme in preparation for PSLE (12 sessions) |



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Introduction to Maths Olympiad

Target group:

- P3 and P4 students who have passion and talent for mathematics

It consists of:

- Introduction to 5 different competition topics
- Example:
 - Four Operations
 - Basic Summation
 - Box Sum
 - Shape Counting
 - Route Counting
- Evaluation test invigilated by the school after 5 lessons (We will provide the test paper and do the marking)

We hope to:

- **Discover** students with potential to excel in competition mathematics.
- **Develop** the thinking skills of these students
- **Achieve** outstanding results in competition



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Primary 4 Maths Olympiad

Objectives

- Prepare students keen in Mathematics for various Mathematical competitions.
- Develop students' interest, creativity, analytical thinking skill, spirit of learning through discovery and challenge in Mathematics.
- Impart knowledge, skill, and attitude through various non-routine and problem solving heuristic relevant to Mathematical competitions.

Topics

| Module 1 (P4) | | |
|---------------|-------------------------|------------|
| | Topics | No. Of Qns |
| 1 | Numbers | 15 |
| 2 | Ones Digit | 8 |
| 3 | Counting | 28 |
| 4 | Volume of Solid Figures | 6 |
| 5 | Calendar | 6 |
| 6 | Guess & Check | 8 |
| 7 | Listing | 6 |
| 8 | Area & Perimeter | 18 |
| 9 | Logic | 9 |
| 10 | Remainder | 9 |
| 11 | Working Backwards | 4 |
| 12 | Angles | 11 |
| 13 | Summation | 12 |

| Module 2 (P4) | | |
|---------------|---------------------|------------|
| | Topics | No. Of Qns |
| 1 | Numbers | 18 |
| 2 | Fractions | 13 |
| 3 | Cubes & Cuboids | 15 |
| 4 | Venn Diagram | 4 |
| 5 | Average | 13 |
| 6 | Area & Perimeter | 16 |
| 7 | Angles | 12 |
| 8 | Comparing | 5 |
| 9 | Factors & Multiples | 11 |
| 10 | Logic | 13 |
| 11 | Alphamatics | 4 |
| 12 | Rate | 14 |

Topics covered are subjected to change depending on the ability of students.

Duration: 12 sessions X 1.5hrs for each module

Class Size: 25 to 35 students per class



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Primary 5 Maths Olympiad

Objectives

- Prepare students keen in Mathematics for various Mathematical competitions
- Further instill students' interest, creativity, analytical thinking skill, spirit of learning through discovery and challenge in Mathematics
- Impart knowledge, skill, and attitude through various non-routine and problem solving heuristic relevant to Mathematical competitions

Topics

| Module 3 (P5) | | |
|---------------|-----------------------|------------|
| | Topics | No. Of Qns |
| 1 | Numbers | 19 |
| 2 | Sum Of Digits | 9 |
| 3 | Counting | 15 |
| 4 | Average | 11 |
| 5 | Extreme Case Scenario | 8 |
| 6 | Area & Perimeter | 22 |
| 7 | Angles | 11 |
| 8 | Logic | 5 |
| 9 | Factors & Multiples | 8 |
| 10 | Transaction | 4 |
| 11 | F,P & R | 17 |
| 12 | Rate | 17 |

| Module 4 (P5) | | |
|---------------|-----------------------|------------|
| | Topics | No. Of Qns |
| 1 | Remainder | 8 |
| 2 | Fraction Manipulation | 13 |
| 3 | P & C | 20 |
| 4 | F,P & R | 16 |
| 5 | Area & Perimeter | 22 |
| 6 | Models | 12 |
| 7 | Non-Routine Challenge | 8 |
| 8 | Partial Fraction | 14 |
| 9 | Circle | 16 |
| 10 | Speed | 16 |

Topics covered are subjected to change depending on the ability of students.

Duration: 12 sessions X 1.5 hrs

Class Size: 25 to 35



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Primary 6 Maths Olympiad

Objectives

- Enhance students' Mathematical knowledge and sharpen their inventive problem solving skill
- Strengthen students' strategies and abilities to attempt the SMOPS
- Familiarize students with the SMOPS format

Topics

| Module 5 (P6) | | |
|---------------|-----------------------|------------|
| | Topics | No. Of Qns |
| 1 | Numbers | 12 |
| 2 | Divisibility | 14 |
| 3 | Counting | 9 |
| 4 | P & C | 13 |
| 5 | F,P & R | 14 |
| 6 | Extreme Case Scenario | 7 |
| 7 | Area & Perimeter | 26 |
| 8 | Indices | 16 |
| 9 | Circles | 21 |
| 10 | Rate | 6 |
| 11 | Speed | 24 |
| 12 | Proportion | 6 |
| 13 | Relative Velocity | 13 |

Topics covered are subjected to change depending on the ability of students.

Duration: 12 sessions X 2 hrs

Class Size: 25 to 35 students per class



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Maths Hub's Track Record

Maths Hub's SMOPS Result

| | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 |
|----------|------|------|------|------|------|------|
| Platinum | 1 | 7 | 8 | 15 | 13 | 9 |
| Gold | 4 | 15 | 15 | 17 | 13 | 18 |
| Silver | 6 | 11 | 15 | 23 | 27 | 34 |
| Bronze | 20 | 27 | 30 | 50 | 54 | 64 |
| Total | 31 | 60 | 68 | 105 | 107 | 125 |

In 2010:

SMOPS:

2 out of 3 non-GEPs schools, trained by Maths Hub, achieved the Honourable Mention Award (Team).

Maths Hub's NMOS Result

| | 2009 | 2010 |
|-------------------|------|------|
| Gold | 4 | 15 |
| Silver | 34 | 43 |
| Bronze | 24 | 83 |
| Honorable Mention | 43 | 127 |
| Total | 105 | 268 |

In 2010, one of the top 3 schools was trained by the Maths Hub group.



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Maths Hub's Track Record (Continued)

Raffles Institution Primary World Mathematics Contest 2010

- 10/57 of the **distinctions** in Singapore were awarded to students trained by Maths Hub
- 3 Schools trained by us came in top 10
- Our top 3 students came in individual 2nd, 4th and 11th

Our Training Material

- Our syllabus has been crafted based on various core topics by our trainers.
- Based on our experience in this field, we have selected topics that are important and placed a varying degree of emphasis.
- The full primary school Mathematical Olympiad Programme is **designed and written by the trainers themselves** to ensure that the lesson is effective and engaging.

Our Instructors

- We have a pool of more than 10 full-time Olympiad trainers who are based in our 4 centres island wide.
- Every single one of them has undergone an intensive course by Mr Michael Lim to familiarize themselves with the **various methods which can be understood by primary school students.**
- Majority of our trainers are majored in Mathematics and are past Mathematical Olympians.



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147
Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Schools that we have taught

Maths Olympiad

Bukit View Primary School
Chong Fu School
Clementi Primary School
First Toa Payoh Primary School
Greenridge Primary School
Jurong West Primary School
Keming Primary School
Lian Hua Primary School
Methodist Girls
Nan Hua Primary School
Pei Chun Primary School
Pei Hwa Presbyterian Pr. School
Pioneer Primary School
Princess Elizabeth Primary School
Rulang Primary School
St Anthony's Primary School
Tampines North Primary School
Yew Tee Primary School
Zhangde Primary School

Syllabus Based

Bukit View Primary School
Clementi Primary School
Greenridge Primary School
Keming Primary School
Pioneer Primary School



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

MATHS OLYMPIAD TRAINERS

Mr Neo Chee Beng B.Sc (1st Class Honours), PGDE

Mr Neo was a JC lecturer for four years and has been teaching Problem-Solving and Mathematical Olympiad for Primary and Secondary levels since 2000.

His ability in Mathematics was recognized in 1987 when he was selected for training in Singapore's first training programme for the International Mathematical Olympiad (IMO). In 1994, he received the Leong Teng Kiang Memorial Prize for being the best student in Mathematics in the Honours Examination.

He is currently conducting Mathematical Olympiad training and PSLE A* Achievers in local schools.

Mr Damian Lee

Mr. Lee graduated with a Bachelor of Science in Statistics from the Faculty of Science, National University of Singapore. He has been giving tuition to Primary and Secondary levels since his university days and was able to motivate his students to score well in their studies.

Mr. Lee has had a strong interest in Mathematics since young. Inculcated with a good foundation in his early years, Mr. Lee consistently obtained A's in his Mathematics exams throughout his schooling life. He always strives for excellence and perfection and received the **Brother Felix Paulian Scholarship** (Best mathematics student) and **ASEAN Pre-University Scholarship** to further his studies in National Junior College.

Mr. Lee is a patient and meticulous teacher. He always ensures that every lesson is well-planned and effectively imparted to the students.



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147

Singapore 521488

Tel: 9181 3492 / 6783 3218 / 6781 9325

Email: matharena@gmail.com

Homepage: www.matharena.com.sg

Ms Fong Pak Gek

Miss Fong Pak Gek has been teaching since 2001 in Private Schools as well as in the local government schools.

She has conducted English, Financial Literacy and Math courses in both Primary and Secondary schools. The Math courses conducted include Olympiad (Pri / Sec), Enrichment and Remedial Programs. The students she had taught include GEP students from schools such as NYPS, ACS, RGPS, and foreign students from neighboring countries.

She believes that every child is unique and each learns at a different pace. Students should be encouraged to strive harder, rewards and encouragements are given when appropriate. She is especially interested in helping underachievers or underprivileged students.

She teaches by interacting with students and using examples encountered in daily life where possible. Emphasis is placed on logical reasoning. Students are taught to check their answers in order to be self-reliant. They are also encouraged to ask questions and participate in class discussions.

Ms Tan Chor Yim

Miss Tan graduated from Nanyang Technological University with second-upper class in Bachelors of Science (Honours), majoring in Mathematical Sciences.

While studying at NTU, Miss Tan has taken courses from both Applied track and Statistics track, which equipped her with strong analytical skills as well as problem-solving skills.

Miss Tan is a patient and dedicated teacher, who constantly find ways to teach her students the best approach to solve every problem. In class, she likes to engage her students and keep them interested in their work. Her students often find that her explanation is simple and concise, which they can easily comprehend and apply in their work.



PERSIS LIM

Block 488B, Tampines Street 45 #B1-147
Singapore 521488
Tel: 9181 3492 / 6783 3218 / 6781 9325
Email: matharena@gmail.com
Homepage: www.matharena.com.sg

We are affiliated to:



Maths n Science Hub

Where abilities come alive ...

Block 233 Bukit Batok East Avenue 5#0133
Singapore 650233
6425 5448
enquiries@mathshub.com.sg
www.mathshub.com.sg



Block 233 Bukit Batok East Avenue 5#0133
Singapore 650233
6425 5448
enquiries@mathshub.com.sg
www.mathshub.com.sg



Block 221, Hougang Street 21 #B1-68,
Singapore 530221
6281 1321 / 6281 1787
kovan@mathshub.com.sg
www.mathshub.com.sg

Math Olympiad (Bishan)

Block 226, Bishan Street 23, #B1-101,
Singapore 570226
6425 5448
enquiries@mathshub.com.sg
www.mathshub.com.sg



144 Upper Bukit Timah Road
#03-30 Beauty World Centre
Singapore 588177
64674150; 68944510
matholympiad@singnet.com.sg
www.mso.com.sg



Science Hub
...unleashing the genius in every child

Block 233 Bukit Batok East Avenue 5 #01-33
Singapore 650233
6425 5448
enquiries@mathshub.com.sg
www.sciencehub.com.sg



PERSIS LIM
Block 488B, Tampines Street 45 #B1-147
Singapore 521488
Tel: 9181 3492 / 6783 3218 / 6781 9325
Email: matharena@gmail.com
Homepage: www.matharena.com.sg