



## Winners List for SMS Essay Competition 2015

### **Category A (Lower Secondary)**

- 1<sup>st</sup> Prize                    *Problem-solving through computational science*  
Fong Chuyi, Raeanne, Amanda Tan Yu En, Isabella Faith Ong Fei Yi  
Paya Lebar Methodist Girls' School (Secondary)
- Honorable Mention    *Wonders of Mathematics*  
Lim Yang En, Enoch Kwok, Kyaw Khant Zaw  
Hwa Chong Institution
- Honorable Mention    *Mathematics as the foundation of computation and science*  
Denyse Chan Kit Wei, Feng Yuxin, Genevieve Chin Wan Qi  
Paya Lebar Methodist Girls' School (Secondary)
- Honorable Mention    *Application of mathematics in computation and science*  
Jerald Teo  
National Junior College

### **Category B (Upper Secondary)**

- 1<sup>st</sup> Prize                    *Hacking Life with Fractals*  
Ethan Chan Kye Xiang  
Victoria School
- 2<sup>nd</sup> Prize                    *Meandering Mathematics*  
Nicholas Tanvis, Ferry Chandra, Joe Teddy Yosua Sanjaya  
Anglo Chinese School (Independent)
- 3<sup>rd</sup> Prize                    *The Modern Knight*  
Wang Jianzhi  
Raffles Institution
- Honorable Mention    *Computation and Science – A Mathematical View*  
Mayuri Gupta  
NPS International School
- Honorable Mention    *Mathematics in Cryptography: From Shift Ciphers to the RSA Cryptosystem*  
Gideon Kharistia  
Anglo Chinese School (Independent)



**Category C (Junior College)**

- |                       |  |
|-----------------------|--|
| 1 <sup>st</sup> Prize | <i>A Mathematical Model of Language</i><br>Yao Yiheng<br>Raffles Institution   |
| 2 <sup>nd</sup> Prize | <i>Mathematics, Computation and Science</i><br>Rachana Raveendran<br>NPS International, Singapore                          |
| 3 <sup>rd</sup> Prize | <i>Mathematics, Computation and Science</i><br>Nirupama Prasad<br>NPS International, Singapore                             |
| Honorable Mention     | <i>The Transformations that Transform Our World</i><br>Meenatchi Sundaram Muthu Selva Annamalai<br>National Junior College |



**Winners List for  
Singapore Mathematics Project Festival 2015  
Singapore Mathematical Olympiad 2015**

**Singapore Mathematics Project Festival 2015  
Junior Section**

<b>Award</b>	<b>School</b>	<b>Project Title</b>	<b>Team Members</b>	<b>Supervisor</b>
<b>Gold Foo Kean Pew Memorial Prize</b>	NUS High School of Mathematics and Science	Exploration of the Isoperimetric Inequality	Dylan Toh Shan Hong	Chai Ming Huang
<b>Gold</b>	Raffles Girls' School (Secondary)	Shadow Art	Li Anqi	Samuel Lee
<b>Gold</b>	Raffles Girls' School (Secondary)	Flat-folding in Origami	Ang Hui Shan, Estelle Lee, Jacqueline Tan Hui Juan	Samuel Lee
<b>Silver</b>	NUS High School of Mathematics and Science	Inscribing Parallelograms in Polygons	Ahnt Htoo Myat	Chai Ming Huang
<b>Silver</b>	National Junior College	Transforming Regular Hexagons into 3-dimensional Structures	Foo Yan Rong, Kee Jin Wen, Pang Wen Ni, Tan Ying Kiat	Lye Wai Leng
<b>Bronze</b>	NUS High School of Mathematics and Science	Pentago: A Mathematical Approach to the Game	Maximus Chin Yu Xun, Sim Ee En Ian	Jiang Zewei
<b>Honorable Mention</b>	Methodist Girls' School	The USS Strategy	Beverly Low Qian Ling, Shermaine Teo Huimin, Kathleen Ng Shee Min, Cher Wen Hui Sarah	Karen Chia



**Singapore Mathematics Project Festival 2015  
Senior Section**

<b>Award</b>	<b>School</b>	<b>Project Title</b>	<b>Participants</b>	<b>Supervisor</b>
<b>Gold</b> <b>Foo Kean</b> <b>Pew</b> <b>Memorial</b> <b>Prize</b>	NUS High School of Mathematics and Science	Enumerating $(k,l)$ -critical and Related Permutations	Yeo Wan Jin	Chia Vui Leong
<b>Silver</b> <b>Best Overall</b> <b>Presentation</b>	Clementi Town Secondary School	The Fault in those Lines	Goh Qing Yun, Yeo Yue Han Clement, Xie Linran	Tan Xin Yi
<b>Silver</b>	Hwa Chong International School	This is the Way -- the Best Method for Parallel Parking	Lu Zhihan, Ding Jiaye, Jin Yiting, Chen Zidan	Paul Tham
<b>Bronze</b>	Hwa Chong Institution	Table Your Time -- Mathematics in Timetabling	Liu Kan, Fan Yang, Qian Jing	Zong Lixing
<b>Bronze</b>	Victoria School	A Variation of the Buffon's Needle and Coin Problems	Ng Wei En, Tan Siong Min Benjamin, Jared Cheang, Lau Hong Rui	Leon Huai Luu
<b>Bronze</b>	Hwa Chong Institution	Partitions Galore	Chan Jun Da, Matthew Ng Cheng En, Jacus Pek Le Xuan	Gwee Hwee Ngee
<b>Bronze</b>	NUS High School of Mathematics and Science	A Generalization of Vandermonde's Identity and Catalan Number	Chang Qing Yang, Wang Anyu, Liu Shiqi	Lee Chan Lye
<b>Honorable</b> <b>Mention</b>	NUS High School of Mathematics and Science	Generating Irregular Sierpinski N-gons using Affine Transformations	Lu Shengyuan, Peng Yiyun, Yu Qiyao	Teoh Yeow Hwee Joel
<b>Honorable</b> <b>Mention</b>	Anglo-Chinese School (Independent)	Mathematical Modelling for Spring Board Diving	Fu Yu	Jin Chenyuan



**Singapore Mathematical Olympiad 2015  
School Award Category 1**

**Gold Award**

Anglo-Chinese School (Independent)  
Hwa Chong Institution  
Nanyang Girls' High School  
NUS High School of Mathematics and Science  
Raffles Girls' School (Secondary)  
Raffles Institution

**Silver Award**

Maris Stella High School  
National Junior College  
River Valley High School  
St Joseph's Institution  
Victoria School

**Bronze Award**

Anderson Secondary School  
Catholic High School  
Cedar Secondary School  
CHIJ St Nicholas Girls' School  
Chung Cheng High School (Main)  
Dunman High School  
Nan Chiau High School  
Nan Hua High School  
Ngee Ann Secondary School  
Swiss Cottage Secondary School  
Tanjong Katong Secondary School

**Commendation Award**

Bukit Batok Secondary School  
Clementi Town Secondary School  
Commonwealth Secondary School  
Crescent Girls' School  
Fuhua Secondary School  
Jurong Secondary School  
Kranji Secondary School  
Methodist Girls' School  
NPS International School, Singapore  
Paya Lebar Methodist Girls' School  
Singapore Chinese Girls' School  
Temasek Junior College  
Temasek Secondary School  
Xinmin Secondary School  
Zhenghua Secondary School  
Zhonghua Secondary School



<b>Singapore Mathematical Olympiad 2015 School Award Category 2</b>
---

**Gold Award**

Anglo-Chinese School (Independent)  
Hwa Chong Institution  
Raffles Institution

**Silver Award**

National Junior College  
NUS High School of Mathematics and Science  
River Valley High School  
Victoria Junior College

**Bronze Award**

Dunman High School  
St Andrew's Junior College  
Temasek Junior College

**Commendation Award**

Anderson Junior College  
Anderson Secondary School  
Catholic Junior College  
Meridian Junior College  
Nan Hua High School  
Nanyang Junior College  
Pioneer Junior College  
St Joseph's Institution  
St Joseph's Institution International



<b>Singapore Mathematical Olympiad 2015</b> <b>Junior Section – Individual Award</b>
---

**Top 10 placing and Singapore Mathematical Challenge Trophy (for Junior Team) will be announced during the Prize Presentation Ceremony:**

<b>Rank</b>	<b>Name</b>	<b>School Name</b>
	Ang Boon Han Nathaniel	Anglo-Chinese School (Independent)
	Boo Tse Yang Lucas	Nanyang Primary School
	Cheng Puhua	Raffles Institution
	Ho Li Xiong Timothy	NUS High School of Mathematics and Science
	Joel Tan Junyao	NUS High School of Mathematics and Science
	Khor Jun Wei	Raffles Institution
	Ng Yu Peng	Hwa Chong Institution
	Tan Wee Kean	Raffles Institution
	Victor Loh Wai Kit	Raffles Institution
	Zhang Xiaorui	NUS High School of Mathematics and Science
11	Ng Yangyi Aloysius	Raffles Institution
12	Tian Yao Ding	St Joseph's Institution International
13	Seah Yuxuan	Raffles Institution
14	Zhang Yu Chi	Raffles Institution
15	Lu Ming Yuan	Bukit Batok Secondary School
16	Shen Xinyi	Raffles Institution
17	Tan Xu Chen	Raffles Institution
18	Daniel Leong Zhi Ming (Liang Zhiming)	NUS High School of Mathematics and Science
19	Goh Chee Kiat Ethan	Raffles Institution
20	Shi Cheng	Hwa Chong Institution
21	Low Choo Ray	Nanyang Primary School
22	Dai Xiang Rong	Raffles Institution
23	Keane Ng	Raffles Institution
24	Sun Longxuan	Hwa Chong Institution
25	Leong Eu-Shaun	Raffles Institution
26	Li Yuelin	NUS High School of Mathematics and Science
27	Lee Jun Long Matthew	Raffles Institution
28	Pan Liyu	Raffles Institution
29	Joshua Yip Sujun	Tanjong Katong Secondary School
30	Jeffrey Lee Chun Hean	NUS High School of Mathematics and Science



<b>Singapore Mathematical Olympiad 2014</b> <b>Senior Section – Individual Award</b>
---

**Top 10 placing and Singapore Mathematical Challenge Trophy (for Senior Team) will be announced during the Prize Presentation Ceremony:**

<b>Rank</b>	<b>Name</b>	<b>School Name</b>
	Bryan Wang Peng Jun	Hwa Chong Institution
	Clarence Chew Xuan Da	NUS High School of Mathematics and Science
	Dylan Toh Shan Hong	NUS High School of Mathematics and Science
	Lee Ker Yang	Raffles Institution
	Ma Zhao Yu	Raffles Institution
	Matthew Fan Xin Yu	NUS High School of Mathematics and Science
	Ong Hong Ming Teddy	NUS High School of Mathematics and Science
	Tan Likai	Raffles Institution
	Teo Por Loong Jacob	NUS High School of Mathematics and Science
	Wang Jianzhi	Raffles Institution
11	Lee Zheng Han	NUS High School of Mathematics and Science
12	Ahnt Htoo Myat	NUS High School of Mathematics and Science
12	Lee Yong Le Isaac	Raffles Institution
14	Zhang Guangxuan	Raffles Institution
15	Zhang Yansheng	Chung Cheng High School (Main)
16	Lim Li	NUS High School of Mathematics and Science
17	Tran Nguyen Manh Thien	St Joseph's Institution
18	Goh Hong Pei	Hwa Chong Institution
19	Gabriel Goh	NUS High School of Mathematics and Science
19	Li Chenxu	Raffles Institution
21	Nguyen Hoai Nam	Anglo-Chinese School (Independent)
22	Li Anqi	Raffles Girls' School (Secondary)
23	Le Quang Anh	Temasek Secondary School
24	Koh Shang Hui	Hwa Chong Institution
25	Winfred Kong	Hwa Chong Institution
26	Chua Yu Xuan Jordan	Raffles Institution
27	Dinh Phuc Hung	Commonwealth Secondary School
28	Sun Yue	Raffles Girls' School (Secondary)
29	Tran Nguyen Manh Dan	St Joseph's Institution
30	Zhang Yaqin	River Valley High School





## Singapore Mathematical Olympiad 2015 Open Section – Individual Award

**Top 10 placing and Singapore Mathematical Challenge Trophy (for Open Team) will be announced during the Prize Presentation Ceremony:**

<b>Rank</b>	<b>Name</b>	<b>School Name</b>
	Bryan Wang Peng Jun	Hwa Chong Institution
	Clarence Chew Xuan Da	NUS High School of Mathematics and Science
	David Lin Kewei	Raffles Institution
	Dylan Toh Shan Hong	NUS High School of Mathematics and Science
	Lee Hua Jun Eugene	Raffles Institution
	Liu Yi Jia	Raffles Institution
	Ma Zhao Yu	Raffles Institution
	Sheldon Kieren Tan	Raffles Institution
	Tan Likai	Raffles Institution
	Tan Siah Yong	Raffles Institution
11	Joel Tan Junyao	NUS High School of Mathematics and Science
12	Howe Choong Yin	NUS High School of Mathematics and Science
13	Gabriel Goh	NUS High School of Mathematics and Science
14	Matthew Fan Xin Yu	NUS High School of Mathematics and Science
15	Wang Shuwei	Hwa Chong Institution
16	Teo Por Loong Jacob	NUS High School of Mathematics and Science
17	Lee Bing Qian Ryan	Hwa Chong Institution
18	Li Anqi	Raffles Girls' School (Secondary)
19	Lyu Liang	Hwa Chong Institution
20	Glen Lim Wei An	Raffles Institution
21	Yang Gan	Raffles Institution
22	Chua Zhe Xuan	Raffles Institution
23	Gao Yuan	Anglo-Chinese School (Independent)
24	Miao Haodong	Raffles Institution
25	Mai Le Xuan Anh	St Joseph's Institution International
26	Khor Jun Wei	Raffles Institution
27	Le Tran Kien	National Junior College
28	Nicolas Tarino	St Andrew's Junior College
29	Huang Han	Raffles Institution
30	Yu Letian	Hwa Chong Institution