

Singapore Mathematical Project Festival 2017

Results

1. JUNIOR SECTION

Gold Medal with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| NUS High School of Mathematics and Science <i>Trigonometrical inequalities</i> | Lee Chan Lye <i>Ho Li Xiong, Timothy</i> <i>Tan Kin Hern (Chen Jingheng)</i> |

Gold Medal.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| National Junior College <i>Tower of Hanoi and its variations</i> | Lye Wai Leng <i>Zwe Zeya</i> <i>Chong Jie Jun Javin</i> <i>Cheah Xue Ping</i> |

Silver Medal with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|--|--|
| Methodist Girls' School <i>The Sentosa strategy</i> | Karen Chia <i>Tang Yijing</i> <i>Chatterjee Anindita</i> <i>Alexis Lei Yee Faye</i> <i>Ananthasayanan Harshavarthini</i> |

Silver Medal.

| School/Project Title | Supervisor/Student(s) |
|--|---|
| NUS High School of Mathematics and Science <i>Gambler's ruin</i> | Chia Vui Leong <i>Aryan Singh</i> <i>Joshua Chin Zhi Yi</i> <i>Qin Haichen</i> |
| NUS High School of Mathematics and Science <i>Analysis of 2048 strategies</i> | Chai Ming Huang <i>Tan Chee Heng</i> |
| Hwa Chong Institution <i>Meffert's Pyraminx</i> | Chen Zenghui <i>Low Wei Sheng</i> <i>Ng Jia Quan</i> <i>Ong Hao Yang</i> |

Bronze Medal with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| Nanyang Girls' High School <i>Wefie taking</i> | Sharon Lee Ruth Tan Tiag Ying Zheng Yilin Guo Meihui Leo Jia En, Bella |
| Hwa Chong Institution <i>Project NIM</i> | Chen Zenghui Koh Shao Bing Tan Jiecong Titus Xianfeng Goh Yu Whenhao |

Bronze Medal.

| School/Project Title | Supervisor/Student(s) |
|--|--|
| Nanyang Girls' High School <i>Easing hospital wards allocation issues using graph colouring</i> | Ong-Yeo Pih Tai Helen Cong Yuqing Samantha Tian Tan Wenjing Tiong Zee Cyn, Cyndi |
| Hwa Chong Institution <i>Approximating π through geometrical mean</i> | Ang Lai Chiang Tan Chern Lin, Justin Tin En Hao Lai Fu Jun Yeoh Yong Jie |

Honourable Mention with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| NUS High School of Mathematics and Science <i>Exploring the magic of magic squares</i> | Jiang Zewei Mathivoli Sriganesh |
| School of Sciences and Technology, Singapore <i>Development of eco-friendly hospice to reduce environmental impact and increase operational efficiency</i> | Nur Johari Tan Zheng Jie Kailun Tan Megan Ng Robin Vinod |

Honourable Mention.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| Zhenghua Secondary School <i>Queue less, eat more!</i> | Boo Jia Liang Chua Xin Yun Corlene Tay Yan Ni Sim Yu Phyllis Thum Weng Chuen |

2. SENIOR SECTION

Gold Medal & Foo Kean Pew Memorial Prize with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| Hwa Chong Institution <i>The congruency of "iso-peri-area" triangles</i> | Ang Lai Chiang Teoh Jun Jie Foo Shi Hong Teow Hua Jun |

Gold Medal.

| School/Project Title | Supervisor/Student(s) |
|--|---|
| NUS High School of Mathematics and Science <i>A renement of Fejer-Jackson inequality</i> | Lee Tuo Yeong Soh Jing Ren |
| NUS High School of Mathematics and Science <i>An elementary approach to Euler's sums via trigonometric series</i> | Lee Tuo Yeong Chong Jing Quan Huang Xing Chen Li Jingtao |

Silver Medal with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|--|---|
| Paya Lebar Methodist Girls' School (Secondary) <i>Kekeya needle problem</i> | Kok Lai Fong Genevieve Chin Wan Qi Ma Priyaatharsini Sharlene Tou Tan Peng Ying |

Silver Medal.

| School/Project Title | Supervisor/Student(s) |
|---|---|
| Catholic High School <i>The painting problem</i> | Tay Kew Yeow Glenn Alastair Ang Kenneth Hoh Jia Khai Shuy Yao Kang |

Bronze Medal with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|--|
| Temasek Secondary School <i>Fractals</i> | Ng Kim Tu Ponhvoan Srey Cao Qing Tiana |

Bronze Medal.

| School/Project Title | Supervisor/Student(s) |
|--|---|
| Clementi Town Secondary School <i>Venn-ture the unknown</i> | Zulhilmi Bin Zulkifle Khant Soe Win Kim Dong Min Ebenezer Jason Lim Xin |

Honourable Mention with Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|---|
| Hwa Chong Institution <i>Hacking hex</i> | Ang Lai Chiang Sun Longxuan Scott Loo Yi He Tan Zhi Heng |

Honourable Mention.

| School/Project Title | Supervisor/Student(s) |
|--|--|
| Hwa Chong Institution <i>Ride the tautochrone</i> | Ang Lai Chiang Tan Yan Wen Lee Jing Yuan Lee Wen Xin Noel Wong Jun Hui, Ryan |
| Dunman High School <i>A study on bicentric N-gons</i> | Tan Chee Kian Hou Linxin Ma Yuge Ma Yuxin |
| Cedar Girls' Secondary School <i>The ultimate lock</i> | Eric Tan Leanne Chang Kia Shuen Ng Sing Xuan Yeoh Siew Ning |
| NUS High School of Mathematics and Science <i>NIM – the impartial game and its variations</i> | Jiang Zewei Daniel Cheng Zhikai Lim Yun Wei Shermane Lu Ziyou |
| NUS High School of Mathematics and Science <i>Determining congruence in polygons with more than 3 sides</i> | Ye Xiajuan Ker Chin Tian Leong Song Zhu, Owen Ong Jia Xin |

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Honourable Mention. (Continued)

| School/Project Title | Supervisor/Student(s) |
|--|---|
| Xinmin Secondary School <i>Exploration of tic tac toe variations</i> | Yap Bee Leng / Kwek Yin Sy Low Bi Shen Gary Tan Weida Pala Tej Deep Goh Kwan Lin Cheryl |
| Xinmin Secondary School <i>Exploration of tic tac toe variations</i> | Yap Bee Leng / Kwek Yin Sy Low Bi Shen Gary Tan Weida Pala Tej Deep Goh Kwan Lin Cheryl |
| Nanyang Girls' High School <i>Sudoku & real-life applications</i> | Tan Chik Leng Qian Zichen Kwa Shi Min Valerie Teo Hui Wen Jenny Ma Junyi |
| Nanyang Girls' High School <i>A magic cube?</i> | Elizabeth Liow Jamie Lee Fang Hua Lee Jia Ying Ser Xin Jie |

Excellent Presentation.

| School/Project Title | Supervisor/Student(s) |
|---|---|
| Catholic High School <i>Satellite orbits and GPS trilateration</i> | Tay Kew Yeow Glenn TMa Wee Kai Ng Zeming, Michael Eugene Ng Zewei, David Ethan |
| Nanyang Girls' High School <i>Window patterns</i> | Linda Chang Leung Zhi Ying Valerie Yip Fang Hong Kimberly Low Mei Yi |
| Cedar Girls' Secondary School <i>The unbreakable password</i> | Eric Tan Indrakshee Mukherjee Yeo Rei |