

Results of Mathematics Project Competition for Secondary Schools (2022/23)
中学数学专题习作比赛（2022/23）成绩

Category A: Junior secondary project A 组：初中习作

Results 成绩	School 学校	Title of Project 专题习作名称
Champion 冠军	Diocesan Girls' School 拔萃女书院	Brouwer's Fixed Point Theorem: Finding a Fixed Point in Triangles and Extension to Quadrilaterals
1st runner-up 亚军	Kwun Tong Government Secondary School 观塘官立中学	Investigation on the Generalization of Pick's Formula
2nd runner-up 季军	St. Paul's Co-educational College 圣保罗男女中学	Foundations of Junior Secondary Pure Geometry --- (Re-)constructed from Junior Secondary Students' Perspectives

Award for Best Presentation
最佳演绎奖

School 学校	Title of Project 专题习作名称
Diocesan Girls' School 拔萃女书院	Brouwer's Fixed Point Theorem: Finding a Fixed Point in Triangles and Extension to Quadrilaterals

Teams of Outstanding Performance and the Titles of their Winning Projects
表现优异奖队伍及作品名称

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Kiangsu-Chekiang College (Shatin) 沙田苏浙公学	浅谈井字过三关
Wong Shiu Chi Secondary School 王肇枝中学	海伦三角形寻根之旅
Wong Shiu Chi Secondary School 王肇枝中学	连续三角形列上的面积问题

Teams of Good Performance and the Titles of their Winning Projects
表现良好奖队伍及作品名称

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Christian Alliance S C Chan Memorial College 香港九龙塘基督教中华宣道会陈瑞芝纪念中学	Parabola in Daily Life
Christian Alliance S C Chan Memorial College 香港九龙塘基督教中华宣道会陈瑞芝纪念中学	密铺世界的奥秘
HKUGA College 港大同学会书院	The Mathematics Behind the 2048 Tile Game
HKUGA College 港大同学会书院	The G-A-M-E: Good At Maximizing Expected payoff
Hong Kong Chinese Women's Club College 香港中国妇女会中学	Windscreen Wipers
Kiangsu-Chekiang College (Kwai Chung) 葵涌苏浙公学	二次函数图像的 x 轴截距与顶点形成的三角形
Kwun Tong Government Secondary School 观塘官立中学	Specials in Triangles: Relations and Concurrency of Lines

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Po Leung Kuk Celine Ho Yam Tong College 保良局何荫棠中学	不同方法解决倒水问题的探究
Pui Ching Middle School 香港培正中学	以建模的方式仿真病毒对人口的影响并分析可行的对策
Pui Ching Middle School 香港培正中学	The Probability of Winning Happy Rainbow and Similar Coin Throwing Booth Games
Sha Tin Government Secondary School 沙田官立中学	The special covering areas
Sha Tin Government Secondary School 沙田官立中学	$(\text{Side})^2$
Shun Tak Fraternal Association Yung Yau College 顺德联谊总会翁佑中学	探讨最短路径及物流优化问题
Shun Tak Fraternal Association Yung Yau College 顺德联谊总会翁佑中学	探究不同直线所形成的交点数量范围
Shun Tak Fraternal Association Yung Yau College 顺德联谊总会翁佑中学	翻折六边形
Shun Tak Fraternal Association Yung Yau College 顺德联谊总会翁佑中学	投资组合的探究
Shun Tak Fraternal Association Yung Yau College 顺德联谊总会翁佑中学	Time-series approach and Machine Learning approach to capture the COVID-19 development in Hong Kong
Stewards Ma Kam Ming Charitable Foundation Ma Ko Pan Memorial College 香港神托会主办马锦明慈善基金马可宾纪念中学	抽奖活动的概率
The Church of Christ in China Ming Yin College 中华基督教会铭贤书院	Applications of Monte Carlo methods
Wah Yan College, Hong Kong 香港华仁书院	Password System
Wong Shiu Chi Secondary School 王肇枝中学	Inscribed Equilateral Triangle
Yan Oi Tong Tin Ka Ping Secondary School 仁爱堂田家炳中学	三角形的四心

Category B: S1 mini-project B 组：中一小型习作

Team of Outstanding Performance and the Title of the Winning Project
表现优异奖队伍及作品名称

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Diocesan Girls' School 拔萃女书院	An Investigation on University Applications using Mathematical Modelling

Team of Mathematical Modelling Award and the Title of the Winning Project
数学建模奖队伍及作品名称

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Diocesan Girls' School 拔萃女书院	An Investigation on University Applications using Mathematical Modelling

Teams of Good Performance and the titles of their Winning Projects
表现良好奖队伍及作品名称

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Carmel Holy Word Secondary School 迦密圣道中学	破解尼姆游戏的秘密
Christian Alliance S C Chan Memorial College 宣道会陈瑞芝纪念中学	Game Theory
Kwun Tong Government Secondary School 观塘官立中学	与万年历有关的运算
Lung Kong WFSL Lau Wong Fat Secondary School 世界龙冈学校刘皇发中学	格格不入

School (in alphabetic order) 学校(按英文名字排序)	Title of Project 专题习作名称
Pok Oi Hospital Chan Kai Memorial College 博爱医院陈楷纪念中学	1vs10, 从数学去验证抽奖体感的迷思
Sha Tin Government Secondary School 沙田官立中学	Speed Calculation of Multiplication
St. Paul's College 圣保罗书院	杨辉三角形
St. Paul's Co-educational College 圣保罗男女中学	The Mathematics Involved in Soccer Betting
Stewards Pooi Kei College 香港神托会培基书院	The Rule of 72
Wah Yan College, Hong Kong 香港华仁书院	Collatz Chaos
Wong Shiu Chi Secondary School 王肇枝中学	扎樽的数学
Yan Oi Tong Tin Ka Ping Secondary School 仁爱堂田家炳中学	Estimation of the Perimeter and the Area of Inferior Planets' Orbits in the Solar System

Remark: Letter would be sent to the school of the awarding team for the results of Mathematics Project Competition for Secondary Schools (2022/23) by 5 June 2023. Award teams would be invited to attend the Prize-giving Ceremony of Mathematics Project Competition and Mathematics Book Report Competition for Secondary Schools (2022/23) cum Exhibition of the Winning Entries held on 6 July 2023 (Thursday) at 2:30 p.m. in 9/F Auditorium, The Hong Kong Federation of Youth Groups Building, 21 Pak Fuk Road, North Point, Hong Kong.

注：得奖队伍的参赛学校将在2023年6月5日收到中学数学专题习作比赛(2022/23)结果的信件。得奖队伍亦会被邀请参加于2023年7月6日(星期四)下午2时30分假香港北角百福道21号香港青年协会大厦9楼演讲厅举行的中学数学专题习作比赛及数学阅读报告比赛(2022/23)颁奖礼暨优胜作品展览。