

Society of Mathematical Studies – Open Days 2020-21

Background

Established in 1965, the Society of Mathematical Studies aims at arousing students' interest in Mathematics. Despite the difficulties encountered due to the recent pandemic, several educational and fun activities are held by both physical and online means to help students with their Mathematical problems and train their problem-solving skills.

The Queen's College Mathematical Olympiad, abbreviated QCMO, was held successfully in October. S1 and S2 students were required to finish 10 challenging questions within 30 minutes. Objectives of the test include boosting high-order thinking skills and enriching the mathematical knowledge among students. Besides, students who performed outstandingly in the test were invited to join a weekly Mathematical Olympiad (MO) training session. The participants are taught by our F4 and F5 committee members through online meetings after school. Throughout the training, the junior students involved can learn relatively profound mathematical knowledge, as well as some tips and tricks to solve questions with faster and smarter approaches.

The Orientation Day, featured by a real-time online quiz, was held days after the QCMO. In each question, students were required to choose the most suitable option or to type the correct answer within the time limit. The committee members gave a detailed explanation for each question, enabling all participants to understand the knowledge and skills behind. Despite being virtual, the competition was indeed immersed in an exciting and tense atmosphere. Students were active in raising questions and interact bilaterally, by which students could discover and share the joy of Mathematics.

Virtual Open Days (2020-21)

Based on the four major pillars of Mathematics (Algebra, Combinatorics, Geometry and Number Theory), we have devised a series of intriguing activities for the upcoming Open Days. Events would be conducted in multifarious forms, ranging from games, real-time quizzes, to talks revolving around various themes. If you wish to know more details about our Open Day activities, please find below the outline and schedule of all events.

We earnestly look forward to your active participation. See you then!

Outline of Events

Topic	Nature of Activity	Date	Time	Medium	Links
NT - Cryptography	Talk	23/4	1000-1020	YouTube	Tentative
合廿四	Game		1030-1050	Google Meet	https://meet.google.com/ndm-rqvs-jhb
A - De Moivre's Theorem	Talk		1100-1120	Google Meet	https://meet.google.com/cqd-dngo-rck
A: Real-time Quiz (1) - De Moivre's Theorem	Online Quiz		1120-1200	Google Meet, Quizizz	https://meet.google.com/cqd-dngo-rck
NT - Introduction	Talk		1500-1520	YouTube	Tentative
Peg Solitaire	Game		1530-1550	Google Meet	https://meet.google.com/ndm-rqvs-jhb
NT - Cryptography, NT - Introduction	Talk - Q&A Session		1600-1640	Google Meet	https://meet.google.com/odx-cabx-moy
A - Euler's Identity	Talk		1640-1700	Google Meet	https://meet.google.com/cqd-dngo-rck
A: Real-time Quiz (2) - Euler's Identity	Online Quiz	1700-1740	Google Meet, Quizizz	https://meet.google.com/cqd-dngo-rck	
C - Probability in Gambling	Talk	24/4	1000-1020	YouTube	Tentative
Sliding Coin Puzzle	Game		1030-1050	Google Meet	https://meet.google.com/ndm-rqvs-jhb
G - Pythagorean Theorem	Talk		1100-1120	Google Meet	https://meet.google.com/cqd-dngo-rck
G: Real-time Quiz (3) - Pythagorean Theorem	Online Quiz		1120-1200	Google Meet, Quizizz	https://meet.google.com/cqd-dngo-rck
G - Coordinate System	Talk		1500-1520	YouTube	Tentative
Mastermind	Game		1530-1550	Google Meet	https://meet.google.com/ndm-rqvs-jhb
C - Probability in Gambling, G - Coordinate System	Talk - Q&A Session		1600-1640	Google Meet	https://meet.google.com/odx-cabx-moy
A - Pythagorean Triples	Talk		1640-1700	Google Meet	https://meet.google.com/cqd-dngo-rck
A: Real-time Quiz (4) - Pythagorean Triples	Online Quiz	1700-1740	Google Meet, Quizizz	https://meet.google.com/cqd-dngo-rck	