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**Introductory Course in  
Olympiad Mathematics**

# HK Winter Mathematics Olympiad 2023

Instructor from International Mathematical Olympiad  
Hong Kong Committee

**Application Deadline**  
**2 Dec 2022 12:00 noon**

**Result Release**  
**12 Dec 2022**

## **Intended Learning Outcomes**

Upon completion of the programme, participants should be able to:

1. Strengthen their collaborative problem-solving skills;
2. Gain experience in expressing their thoughts and ideas in presentation.



## ◆ Introduction

- HK Winter Mathematics Olympiad is a two-day workshop for students to strengthen their problem-solving skills through games, research activities, and group competitions. A variety of challenging problems will be posted in the competition and students will be divided into groups according to their abilities and levels. Collaborative problem-solving is the main focus in this workshop.
- This programme is co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)

## ◆ Target Participants

- S2 to S6 HKAGE student members
- **Group A:** HKAGE Student members who have participated in any phase of International Mathematics Olympiad Training before  
Class size: 18
- **Group B:** All other HKAGE Student members who have NEVER participated in any phase of International Mathematics Olympiad Training nor HK Winter Mathematics Olympiad before.  
Class size: 60

*(Priority will be given to student members who have completed one of the programmes in Maths Ignition Series, namely: MATS1111/E1IM0001C, MATS1112/E1IM0002C, MATS1113/EIM0003C/S1IM0003C, MATS1114/E1IM0004C/S1IM0004C and MATS1115/E1IM0005C/S1IM0005C)*

This programme is the same as Introductory Workshop in Olympiad Mathematics: HK Winter Mathematics Olympiad 2019 (MATS1100) in 18/19 school year.

## ◆ Medium of Instruction

Cantonese with English handouts

## ◆ Screening

Please answer the screening question in the online application form.

\*The screening question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. **Selection is based on students' performance in answering the questions and their suitability for the programme.**



## ◆ Schedule

Session	Date	Time	Venue (Group A – IMO)	Venue (Group B – Non-IMO)
1	26 Jan 2023	9:00 a.m. – 9:30 a.m.	Opening Introduction and Grouping (Room 105, HKAGE)	
		9:30 a.m. – 1:00 p.m.	Mini research (Room 204, HKAGE)	Mathematics Game (Room 105, HKAGE)
2		2:00 p.m. – 5:00 p.m.	Seminar (Room 105, HKAGE)	
3	27 Jan 2023	9:00 a.m. – 1:00 p.m.	Problem Solving Contest (Room 204, HKAGE)	Problem solving Workshop & Problem Solving Contest (Room 105, HKAGE)
4		2:00 p.m. – 5:00p.m.	Closing & Prize Presentation (Room 105, HKAGE)	

### ATTENTION:

- 1. To prevent interruption of the activities, **students who arrive late may not be allowed to participate.**
- 2. For any assessment to be held in the programme, no make-up will be arranged.

## ◆ Certificate

E-Certificate will be awarded to participants who have:

- attended **at least 3 sessions**; and
- completed all the assignments with satisfactory performance