



# International Mathematics Olympiad Training

## 2020-21 (Phase III) Level I (E3IMO006C)

### Introduction

- A comprehensive mathematics programme which covers such as Algebra, Number Theory, Geometry and Combinatorics
- Introduce the basic curriculum of the International Mathematics Olympiad competition
- Broaden student's mathematical knowledge, strengthen their problem solving, higher order and logical thinking skills
- Training consists of 3 Phases: Phase I (July – August), Phase II (Sept – Dec) and Phase III (Jan – Mar 2021)
- Students with outstanding performance in the programme would be selected as the representatives of Hong Kong in the 62<sup>nd</sup> IMO 2021

The International Mathematical Olympiad Training programmes are co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)

### Programme Type / Level

Advanced Course in Mathematical Olympiad ([Token-required](#))

### Instructor(s)

Dr Leung Tat Wing and other trainers

### Target Participants

NON-HKAGE Student members who

- ◆ were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong**

HKAGE Student members who

- ◆ were awarded **Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong** *or*
- ◆ have been a trainee **in any phase of International Mathematics Olympiad (IMO) Training** *or*
- ◆ have completed **any Phase of CGMO** *or*
- ◆ have completed **any Phase of ITOM training with Distinction**

Class size: 40

### Medium of Instruction

Cantonese with English handouts

### Certificate

**E-Certificate** will be awarded to participants who have:

- ❖ Attended **at least 8 sessions AND**
- ❖ **Satisfactory performance in ALL assessments**

### Intended Learning Outcomes

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

1. Broaden their mathematical knowledge in a variety of areas on the basis of senior secondary mathematics curriculum;
2. Strengthen their problem solving and higher-order thinking skills.

### Application Deadline

**14 Dec 2020**

**12 n.n.**

### Application Result Release Date

**18 Dec 2020**

If student members withdraw from the programme after the Application Deadline, the token will be deducted.

## Schedule

Session	Date	Time	Topic	Trainer	Venue (HKAGE)
1	9 Jan	2:00 p.m. – 5:00 p.m.	Number Theory V (Vieta Flips and Infinite Descent)	L T Chan	
2	16 Jan		Number Theory VI	L T Chan	
3	23 Jan		Combinatorics VI	K H Law	Online
4	30 Jan		Combinatorics VII	K H Law	teaching
5	6 Feb		Geometry VIII	K K Kwok	
6	20 Feb		Geometry IX	K K Kwok	
7	27 Feb		Set Partitions	C M Hung	Room
8	6 Mar		Algebraic Identities and Transformations	C M Hung	303
9	9 Mar		9:00 a.m. – 1:00 p.m.	<b>APMO</b>	T W Leung

Remarks:

Students **MUST ATTEND** the test **Asian Pacific Mathematics Olympiad (APMO)** held on **9 Mar 2021**. No make-up test will be arranged.

## Enquiries

For enquiries, please contact Academic Programme Development Division on 3940 0101 after language selection, press "1".