



# International Mathematical Olympiad Training 2020-21 (Phase I) Level I (MATS2131)

<p><b>Introduction</b></p>	<ul style="list-style-type: none"> <li>• A comprehensive mathematics programme which covers such as Algebra, Number Theory, Geometry and Combinatorics</li> <li>• Introduce the basic curriculum of the International Mathematical Olympiad competition</li> <li>• Broaden student's mathematical knowledge, strengthen their problem solving, higher order and logical thinking skills</li> <li>• Training consists of 3 Phases: Phase I (July – August), Phase II (Sept – Dec) and Phase III (Jan – Mar 2021)</li> <li>• Students with outstanding performance in the programme would be selected as the representatives of Hong Kong in the 62<sup>nd</sup> IMO 2021.</li> </ul> <p>The International Mathematical Olympiad Training programmes are co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)</p>
<p><b>Programme Type / Level</b></p>	<p>Advanced Course in Mathematical Olympiad (<a href="#">Token-required</a>)</p>
<p><b>Instructor(s)</b></p>	<p>Dr Leung Tat Wing and other trainers</p>
<p><b>Target Participants</b></p> 	<ul style="list-style-type: none"> <li>➤ <u>Non-HKAGE student members</u> who were awarded <b>Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong 2020</b></li> <li>➤ <u>HKAGE Student members</u> who             <ul style="list-style-type: none"> <li>◆ were awarded <b>Honourable Mention or above in IMO Preliminary Selection Contest – Hong Kong</b> <i>or</i></li> <li>◆ have been a trainee in <b>any phase of International Mathematics Olympiad (IMO) Training</b> <i>or</i></li> <li>◆ have completed <b>any Phase of CGMO</b> <i>or</i></li> <li>◆ have completed <b>any Phase of ITOM training with Distinction</b></li> </ul> </li> <li>➤ Class size: 40</li> </ul> <p><i>Remarks:</i>  <i>Awardees of Gold, Silver, Bronze Awards and Honourable Mentions will be eligible to participate in the “International Mathematics Olympiad Training 2020-21 (Phase I) Level 1”.</i>  <i>Besides, awardees of appropriate age who have successfully completed the “International Mathematics Olympiad Training 2020-21 (Phase I) Level 1” may be invited to join the screening for HKAGE membership through the “Nurturing the Gifted Scheme”.</i>  <i>For enquiries, please contact Student Services Team at 3940 0101 Membership - After language selection, press “3” or by email to <a href="mailto:ss@hkage.org.hk">ss@hkage.org.hk</a>.</i></p>
<p><b>Medium of Instruction</b></p> 	<p>Cantonese with English handouts</p>
<p><b>Certificate</b></p> 	<p><b>E-Certificate</b> will be awarded to participants who have:</p> <ul style="list-style-type: none"> <li>❖ <b>Attended at least 14 sessions AND</b></li> <li>❖ <b>Satisfactory performance in the end-of-course test</b></li> </ul>

## 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

**8 Jul 2020, 12:00 n.n.**

## Application Result Release Date

**10 Jul 2020**

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

## Schedule



Session	Date	Time	Topic	Instructor	Venue (HKAGE)
1	14 Jul	2:00 p.m. – 5:00 p.m.	Introduction to Problem Solving	Andy Loo	Online teaching
2	16 Jul		Combinatorics I	K H Law	
3	18 Jul		Geometry I	K K Kwok	
4	21 Jul		Algebra I	C M Hung	
5	23 Jul		Combinatorial Geometry	Andy Loo	
6	25 Jul		Combinatorics II	K H Law	
7	28 Jul		Number Theory I	L T Chan	
8	30 Jul		Number Theory II	L T Chan	
9	1 Aug		Algebra II	C M Hung	
10	4 Aug		Geometry II	K K Kwok	
11	6 Aug		Geometry III	K K Kwok	
12	8 Aug		Geometry IV	K K Kwok	
13	11 Aug		Combinatorics III	K H Law	
14	13 Aug		Combinatorics IV	K H Law	
15	15 Aug		Number Theory III	L T Chan	
16	18 Aug		Number Theory IV	L T Chan	
17	20 Aug		Algebra III	C M Hung	
18	<b>21 Aug</b> <b>[POSTPONED]</b>			<b>Test</b>	

Remarks:

- The topics and instructors are subject to change without prior notice.

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".

**MATHEMATICS**

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