



S2IM0002C (Token- required)

Intermediate Course in Mathematical Olympiad Introduction to Olympiad Mathematics 2023 (Phase II)

Dr Ching Tak Wing and other trainers

For students recommended by the International Mathematical Olympiad Hong Kong Committee ONLY

Intended Learning Outcomes

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

- 1. broaden mathematical knowledge in a variety of areas on the basis of senior secondary mathematics curriculum
- 2. strengthen the problem solving and higher-order thinking skills
- 3. learn more about the scope of International Mathematical Olympiad Training



Introduction

- An introductory to intermediate level comprehensive mathematics programme which covers a wide range of topics
- · Broaden students' mathematical knowledge and strengthen their problem-solving skills
- Students can learn more about the scope of International Mathematical Olympiad Training
- Consists of 2 phases
- This programme is co-organized with International Mathematical Olympiad Hong Kong Committee • (IMOHKC)

Schedule

Session	Date	Time	Venue
1	27 May 2023	09:00 - 12:30	Room 203, HKAGE
2	3 Jun		
3	10 Jun		Room 303, HKAGE
4	17 Jun		
5	24 Jun		
6	20 Jul		
7	22 Jul		Room 203, HKAGE
8	27 Jul		Room 303, HKAGE
9	29 Jul (Test)		

• For any assessment to be held in the programme, no make-up will be arranged.

Target Participants

Student who have completed Introduction to Olympiad Mathematics 2023 (Phase I) (S1IM0008C) and recommended by the International Mathematical Olympiad Hong Kong **Committee ONLY**

Medium of Instruction

Cantonese with English handouts

Certificate

E-Certificate will be awarded to participants who have:

- attended at least 7 sessions: and
- completed all the assignments with • satisfactory performance







Appendix - IMO-related Programmes

- IMO-related programmes is a series of programmes that provide International Mathematics Olympiad (IMO) related training. It aims to equip students with the mathematics knowledge and curriculum of IMO, problem solving skills, and high-order thinking skills progressively.
- The programmes are divided into three levels: Introductory, Intermediate, and Advanced level.
- There are different enrollment methods, e.g. aptitude test. For details, please refer to each programme's poster



*Detail flowchart and timeline, please refer to next page

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International Mathematical Olympiad Related Programmes



Remarks:

ITOM – Introduction to Olympiad Mathematics CGMO – China Girl's Mathematical Olympiad IMO – International Mathematical Olympiad CHKMO – Hong Kong (China) Mathematical Olympiad CMO – Chinese Mathematical Olympiad APMO – Asian Pacific Mathematics Olympiad

IMO HK Team representatives are selected based on their performance in the assessments from ① through ⑦

IMPORTANT information for International Mathematical Olympiad (IMO) Training

Phase Trainings						
Eligibility IMO Preliminary	V Selection Contest awardees ① or	ining or				
Student membersStudent membersStudent members	s who have completed any phase of CGMO Training o s who have completed any phase of ITOM Training wi	th Distinction				
Training /Competition	Content	Excepted Schedule	Remark			
Phase I Training	13 x 3-hr lessons	Jul - Aug				
	Test 1 ② 3 hr, 6 proof problems	Aug	♦ Phase test♦ No make-up test			
	17 x 3-hr lessons	Sep - Dec				
Phase II Training	Test 2 ③ 3 hr, 4 proof problems	Oct	♦ Phase test♦ No make-up test			
	CHKMO ④ 3 hr, 4 proof problems	Dec	♦ Phase test♦ No make-up tests			
СМО	2 days x 4.5 hr, 3 proof problems	Dec or Jan	6# students selected based on Prelim ①, Test 1 ②, and Test 2 ③			
	8 x 3-hr lessons	Jan - Mar				
rnase III Tranning	APMO ⑤ 4 hr, 5 proof problems	Mar	 ♦ End-of-phase test ♦ No make-up test 			
Selection Tests for Pre-IMO Intensive Training	Test 3 (6)4.5 hr, 3 proof problemsTest 4 (7)4.5 hr, 3 proof problems	Apr or May	18 students selected based on Prelim ①, Test 1 ②, Test 2 ③, CHKMO ④ and APMO ⑤			
Pre-IMO Intensive	IMO HK Team (6 students)		 No make-up tests 12 students selected based on Prelim ①, 			
Training	& Alternate Team (6 students),		Test 1 ②, Test 2 ③, CHKMO ④, APMO ⑤, Test 3 ⑥ and Test 4 ⑦			
IMO	2 days x 4.5 hr, 3 proof problems @		IMO HK Team			
CGMO	2 days x 4 hr, 4 proof problems @		8# female students selected via CGMO Training (NOT IMO Training)			

Subject to change. May vary from year to year.

IMO HK Team representatives are selected based on their performance in the assessments from ${\mathbb O}$ through ${\mathbb O}$

Useful websites

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IMO official website:	www.imo-offcial.org
IMO 2017 website:	http://www.imo2017.org.br/
Art of Problem Solving:	www.artofproblemsolving.com
Mathematical Database:	www.mathdb.org
IMO 2016 Facebook page:	www.facebook.com/imo2016
IMO 2016 newsletter IMOment:	www.edb.gov.hk/tc/curriculum-development/kla/ma/IMO/IMOment.html
Mathematical Excalibur:	www.math.ust.hk/excalibur/
reference list recommended by IMOHKC	https://docs.google.com/spreadsheets/d/114GNYbY2eDPPKCnD4lpnYuqNenJVo- 3NgKUMDh6m5ow/edit?usp=sharing