



香港資優教育學苑

The Hong Kong Academy for Gifted Education

香港特別行政區政府教育局資助

Subvented by the Education Bureau, the Government of the HKSAR



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S1IM0008C

(Token- required)

[**Gifted Programme**]

Mathematical Olympiad Course (Level I)

Introduction to Olympiad Mathematics 2026 (Phase I)

Instructor from International Mathematical Olympiad
Hong Kong Committee Limited

INTRODUCTION TO
OLYMPIAD
MATHEMATICS

Phase I

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



Application Deadline
17 Nov 2025 12:00 noon

Result Release
19 Dec 2025

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students 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

◆ Gifted Programme Introduction

- An introductory 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 Limited (IMOHKCL)

◆ Suitable for

- S1 to S6 HKAGE student members
- Class size: 30

All applicants **MUST** attend the **Aptitude Test** held on **6 Dec 2025**.

Except for those who have

- a) completed 2 courses in Maths Ignition series with “certificate of distinction” **OR**
- b) completed 3 courses in Maths Ignition series with “certificate of merit” or above **OR**
- c) completed 4 courses in Maths Ignition series with “certificate of completion” or above **OR**
- d) attended the Aptitude Test held on 15 Feb 2025, 24 May 2025, or 23 Aug 2025

Remarks: Not for student members who have completed any phase of “International Mathematics Olympiad Training” or “Introduction to Olympiad Mathematics” before

Remarks:

- Due to the limited seats in computer rooms, students who attended the Aptitude Test on 23 Aug 2025 would not be allowed to take the test on 6 Dec 2025. Their results on 23 Aug 2025 will be used for this programme.
- Students will be selected randomly in attending the Aptitude Test if the application is over-subscribed. Only selected students could join the Aptitude Test held on 6 Dec 2025.
- A notification email will be sent on **25 Nov 2025** for the application result of the Aptitude Test.
- All unselected students will be regarded as having unsuccessful applications to this programme.

◆ Medium of Instruction

Cantonese with English handouts

◆ Pre-requisite

Students should know the basic knowledge of the following:

Quadratic Equations and Functions, Binomial Theorem, Mathematical Induction, Remainder Theorem and Factor Theorem, Arithmetic and Geometric Sequences, Circles and Trigonometry

◆ Aptitude Test

- Students who wish to apply for this programme must take a general aptitude test on **6 Dec 2025 (1:45 p.m. – 3:45 p.m. or 4:00 p.m. – 6:00 p.m.)**. Except for those who have attended the Aptitude Test held on 15 Feb 2025, 24 May 2025, or 23 Aug 2025.
- This general aptitude test covers a wide range of topics in mathematics. The purpose of the test is to figure out the applicant's knowledge in different fields of mathematics in order to choose the most suitable students for different programmes. Neither under-qualified nor over-qualified students will be admitted.
- The result of an aptitude test will be valid for one year. If a student takes the test more than once, the latest result will prevail. The following table lists the programmes for which the results of this general aptitude test will apply.

Programme Date	Code	Programme Name	Aptitude test valid			
			15 Feb 2025	24 May 2025	23 Aug 2025	6 Dec 2025
Jan 2026	S1IM0007C	CGMO Training 2026 (Phase I)	✓	✓	✓	✓
Jan 2026	S1IM0008C	Introduction to Olympiad Mathematics 2026 (Phase I)	✓	✓	✓	✓

Remarks:

- All aptitude tests will only be arranged on the designated dates. No make-up test will be arranged.
- No Calculator is allowed.
- Please bring along your Identification Card, e.g., HKID, student ID.
- Please arrive at the venue 15 minutes prior to the Aptitude Test begins.

If students who have selected to join the aptitude test are absent without any reasons and prior notification provided, it will result in a lower priority in joining the aptitude test next time when they apply.

◆ Certificate

E-Certificate will be awarded to participants who have:

- attended **at least 7 sessions**; and
- completed all the assignments with satisfactory performance

Only participants who have completed Phase I of the ITOM can proceed to Phase II training.)

◆ Schedule

Session	Date	Time	Venue
Aptitude Test	6 Dec 2025	1:45 p.m. – 3:45 p.m. or 4:00 p.m. – 6:00 p.m.	To be confirmed
1	15 Jan 2026	4:45 p.m. – 8:15 p.m.	Room 303, HKAGE
2	22 Jan 2026	4:45 p.m. – 8:15 p.m.	
3	29 Jan 2026	4:45 p.m. – 8:15 p.m.	
4	5 Feb 2026	4:45 p.m. – 8:15 p.m.	
5	12 Feb 2026	4:45 p.m. – 8:15 p.m.	
6	28 Feb 2026	2:00 p.m. – 5:30 p.m.	
7	7 Mar 2026	2:00 p.m. – 5:30 p.m.	
8	14 Mar 2026	2:00 p.m. – 5:30 p.m.	
9	21 Mar 2026	2:00 p.m. – 5:30 p.m.	Room 105, HKAGE

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

◆ Sample Notes

1. Does there exist a multiple of 2017 of the form $111\dots111$?
2. If $a + b + c = 10$, what is the greatest possible value of ab^2c^3 ?

◆ Appendix - IMO-related Programmes

- IMO-related programmes is a series of programmes that provide International Mathematical 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.
- There are different enrollment methods, e.g. aptitude test. For details, please refer to each programme's poster

Level I

Maths Ignition (MI) Programmes

- For S1-S3 HKAGE student members
- Introductory training in Mathematical Olympiad by topics
- Enroll through aptitude test

Level I to II

Introduction to Olympiad Mathematics (ITOM)

- For S1-S6 HKAGE student members
- Two phases of training
- Enroll through aptitude test; OR
- Students who attained (a) distinction in 2 MI courses; OR (b) merit or above in 3 MI courses; OR (c) completion or above in 4 MI courses could enroll directly

Level I to III

China Girls' Mathematical Olympiad

- For S1-S6 HKAGE female HKAGE student members
- Three phases of training
- Enroll through aptitude test; OR
- Students who have completed any phase of IMO/CGMO/ITOM Training in the past two years could enroll directly
- CGMO HK Team members will be selected based on their performance in the trainings

Level III to IV

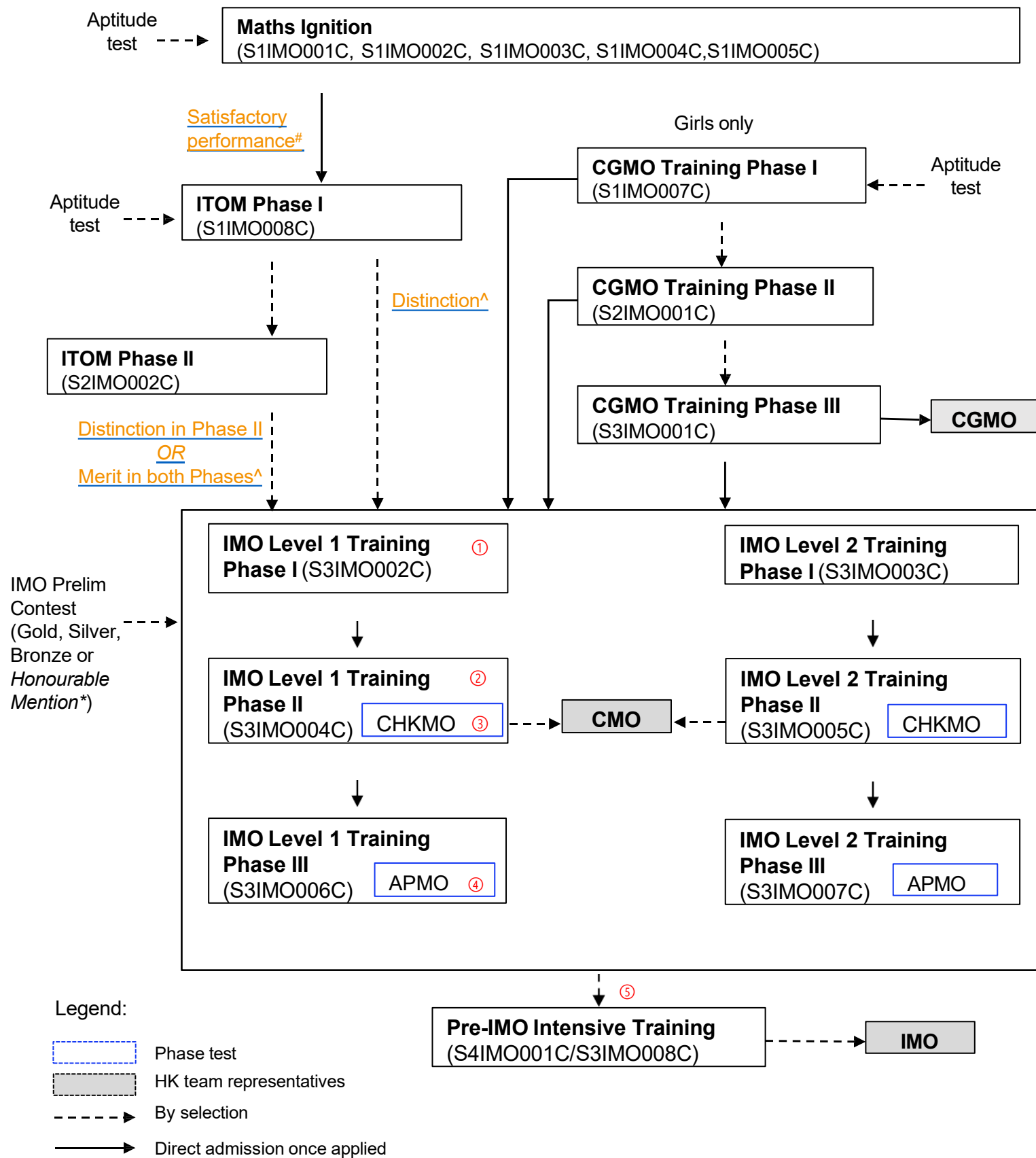
International Mathematical Olympiad (IMO) Trainings*

- Four phases of training
- The application is limited to invited members only
- IMO HK Team representatives are selected based on their performance in the assessments during trainings
- The HKAGE and IMO HKCL reserve the right of the final decision in case of any dispute concerning the IMO HK Team list

**For detailed criteria, flowchart and timeline, please refer to the next page.*

International Mathematical Olympiad Related Programmes

(English version only 只提供英文版)



Remarks:

ITOM – Introduction to Olympiad Mathematics
CGMO – China Girls' 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 ⑤
*For Honourable Mention awardees, admission to the training is subject to seat availability