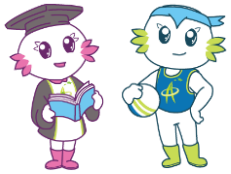
香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education
香港特別行政區政府教育局資助
Subvented by the Education Bureau, the Government of the HKSAR



Learn about Gigi & Yoyo

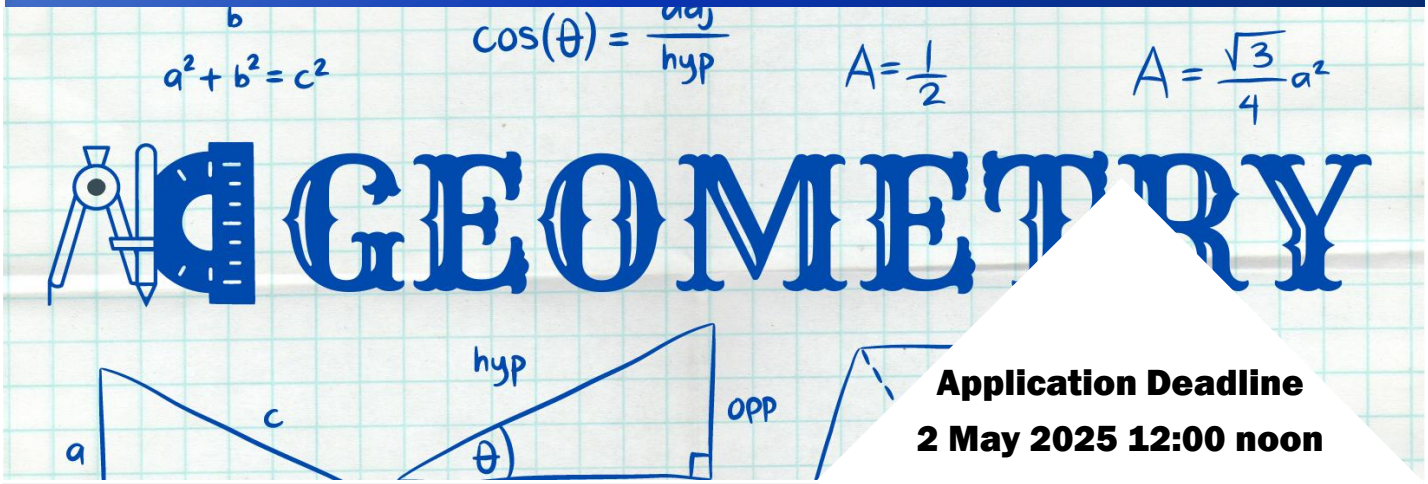
S1IMO002C
(Token- required)

[**Gifted Programme**]

Mathematical Olympiad Course (Level I)

Maths Ignition – Geometry

Instructor from International Mathematical Olympiad Hong Kong Committee Limited



Application Deadline
2 May 2025 12:00 noon

Result Release
5 Jun 2025

Intended Learning Outcomes

Upon completion of the gifted programme, gifted students should be able to:

1. broaden their mathematical knowledge in the topic of geometry on the basis of junior secondary mathematics curriculum;
2. strengthen their problem solving and higher-order thinking skills;
3. learn more about the scope of International Mathematical Olympiad Training.

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

Gifted Programme Introduction

- Maths Ignition is an introductory programme. It is designed as a series of courses on different topics and is developed as a bridging programme to the 'IMO Training' programme.
- 'Maths Ignition- Geometry' is the second course of the series. It aims to broaden students' knowledge in Geometry on the basis of junior secondary mathematics curriculum through exploration and investigation approach.
- Students might be considered for direct admission to the 'Introduction to Olympiad Mathematics 2026 (Phase I)' (S1IMO008C) , an intermediate-level programme offered by IMO Hong Kong Committee Limited (IMOHKCL) if 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
- This programme is co-organized with International Mathematical Olympiad Hong Kong Committee Limited (IMOHKCL)

Suitable for

- S1 to S3 HKAGE student members
- Class size: 30
- All applicants MUST attend the Aptitude Test held on 24 May 2025 except for those who have attended the Aptitude Test held on 17 Aug 2024, 16 Nov 2024 or 15 Feb 2025.

* Not for students who have enrolled in:
1. CGMO Training (Phase I) (S1IMO007C) or
2. Introduction to Olympiad Mathematics (Phase I) (S1IMO008C) or
3. Any phase of International Mathematics Olympiad (IMO) Training before.

Remarks:
- Due to the limited seats in computer rooms, students who have attended the Aptitude Test on 15 Feb 2025 will not be allowed to take the test on 24 May 2025. Their results on 15 Feb 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 24 May 2025.
- A notification email will be sent on **12 May 2025** for the application result of the Aptitude Test.
- All unselected students will be regarded as their application of this programme unsuccessful.

This programme is same as "Introductory Course in Mathematical Olympiad (Level I): Maths Ignition – Geometry (S1IMO002C)" in 23/24 school year.

Medium of Instruction

Cantonese with English handouts

Pre-requisite

Students should know the basic knowledge of the following:

1. congruence and similarity;
2. properties of triangles and different types of quadrilaterals;
3. Pythagoras' Theorem

Enquiries 3940 0101 programme@hkage.org.hk

Aptitude Test

- Students who wish to apply for this programme must take a general aptitude test on 24 May 2025 (1:45p.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 17 Aug 2024, 16 Nov 2024, or 15 Feb 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 next aptitude test is tentatively scheduled on 16 Aug 2025. 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			
			17 Aug 2024	16 Nov 2024	15 Feb 2025	24 May 2025
Jul 2025	S1IMO001C	Maths Ignition – Combinatorics	✓	✓	✓	✓
Aug 2025	S1IMO002C	Maths Ignition - Geometry	✓	✓	✓	✓
Sep 2025	S1IMO003C	Maths Ignition - Number Theory		✓	✓	✓
Nov 2025	S1IMO004C	Maths Ignition – Algebra			✓	✓
Feb 2026	S1IMO005C	Maths Ignition - Coordinate Geometry				✓
Mar 2026	S1IMO007C	CGMO Training 2026 (Phase I)				✓
Mar 2026	S1IMO008C	Introduction to Olympiad Mathematics 2026 (Phase I)				✓

Remarks:

1. **All aptitude tests will only be arranged on the designated dates. No make-up test will be arranged.**
2. **No Calculator is allowed.**
3. **Please bring along with your Identification Card, e.g. HKID, student ID.**
4. **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.

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Schedule

Session	Date	Time	Venue
Aptitude Test	24 May 2025	1:45 p.m. – 3:45 p.m. OR 4:00 p.m. – 6:00 p.m.	Mongkok (To be confirmed)
1	5 Aug 2025	9:00 a.m. – 12:00 noon	Room 204, HKAGE
2	7 Aug 2025		Room 203, HKAGE
3	12 Aug 2025		Room 204. HKAGE
4	14 Aug 2025		Room 204, HKAGE

- A notification email will be sent on **12 May 2025** for the application result of the Aptitude Test.
- 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

Sample Notes

- Explain why SSA cannot be used to prove congruent triangles. Are there special cases in which SSA can guarantee congruence?
- Work out different proofs to Pythagoras' Theorem and its converse. Is it logically correct to prove the converse of Pythagoras' Theorem using Pythagoras' Theorem?

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