







# MATHS IGNITION: ALGEBRA (E1IMO004C)

<b>Introduction</b>	<p>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.</p> <p>'Maths Ignition : Algebra' is the fourth course of the series. It aims to broaden students' knowledge in Algebra on the basis of junior secondary mathematics curriculum through exploration and investigation approach. Students who have completed 2 out of 5 courses in Math Ignition series might be considered for direct admission to the 'Introduction to Olympiad Mathematics 2021 (Phase I)' (E1IMO008C), an intermediate-level programme offered by IMO Hong Kong Committee.</p> <p>This programme is co-organized with International Mathematical Olympiad Hong Kong Committee (IMOHKC)</p>
<b>Programme Type / Level</b>	Introductory Course in Mathematical Olympiad ( <a href="#">Token-required</a> )
<b>Instructor(s)</b>	Mr Hui Pak Nam
<b>Pre-requisites</b>	<p>Students should have the basic knowledge in</p> <ol style="list-style-type: none"><li>1. Basic Manipulations of Algebraic Expressions</li><li>2. Multiplication and Divisions of Polynomials</li><li>3. Basic Algebraic Identities</li><li>4. Expansion and Factorisation of Polynomials</li><li>5. Solving Systems of Linear Equations</li></ol>
<b>Target Participants</b>	<p> S1 – S3 HKAGE student members Class size: 30</p> <p>➤ All applicants <b>MUST submit the "Screening Form" no later than 24 Aug 2020 (Mon) at 12 noon.</b></p> <p><b>* Not for students who have enrolled in</b></p> <ol style="list-style-type: none"><li><b>1. CGMO Training (Phase I) (E1IMO007C) or</b></li><li><b>2. Introduction to Olympiad Mathematics (Phase I) (E1IMO008C) or</b></li><li><b>3. Any phase of International Mathematics Olympiad (IMO) Training before.</b></li></ol>
<b>Medium of Instruction</b>	<p> Cantonese with English handouts</p>
<b>Certificate</b>	<p> <b>E-Certificate</b> will be awarded to participants who have:</p> <ul style="list-style-type: none"><li>❖ Attended <b>at least 3 sessions AND</b></li><li>❖ Satisfactory performance in the end-of-course test.</li></ul>
<b>Intended Learning Outcomes</b>	<p> Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"><li>1. Broaden their mathematical knowledge in the topic of algebra on the basis of junior secondary mathematics curriculum;</li><li>2. Strengthen their problem solving and higher-order thinking skills;</li><li>3. Learn more about the scope of International Mathematical Olympiad Training.</li></ol>

Application  
Deadline

17 Aug 2020 12:00 n.n.

Application Result  
Release Date

28 Aug 2020

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

### Schedule



Session	Date	Time	Venue
Aptitude Test <b>[Cancelled]</b>	22 Aug 2020	<del>1:30 p.m. – 3:30 p.m.</del> or <del>4:00 p.m. – 6:00 p.m.</del>	<del>Computer Room, 1/F, Hong Kong Productivity Council</del>
<b>Submission Deadline of “Screening Form”</b>	<b>24 Aug</b>	<b>12:00 n.n.</b>	---
1	28 Nov	2:00 p.m. – 5:00 p.m.	HKAGE Room 403
2	5 Dec		
3	12 Dec		
4	19 Dec		

### Remarks:

- “Screening Form” will be sent to students concerned in the morning of 21 Aug (Fri) through email. Please submit the completed Form no later than 24 Aug (Mon) at 12 noon. Late submission will not be considered.**
- For any assessment to be held in the programme, no make-up will be arranged.

### Sample Examples for the Programme

- Without using a calculator, find  $\sqrt[3]{8030}$  correct to 3 decimal places.
- Let  $a$  be a real number such that  $a^2 - a - 1 = 0$ . Find the value of  $a^4 - a^3 + a^2 - 2a + 2016$ .

### Enquiries



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