香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

E1MAT002C
(Token- required)

Numbers and Arithmetic Course (Level I)

Number Systems

Mr Fung Ka Fai (Mathematics Teacher of Stewards Pooi Kei Primary School)

Application Deadline
16 May 2022, 12:00 noon

Result Release
27 May 2022

Intended Learning Outcomes

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

1. examine the mathematical principle behind everyday phenomenon (e.g. Chinese rod counting);
2. analyze and solve practical problems by using concepts in number theory such as Odd–even transposition sort, Chinese remainder theorem and theorems related to factors;
3. synthesize new logical number systems with number theory concepts;
4. improve problem-solving skills through the study of the development number systems and the application in ancient daily lives.

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

香 港 資 優 教 育 學 苑
The Hong Kong Academy for Gifted Education

Introduction

Would you like to know the relationship between the four cradles of civilization and the numeral system?

Would you like to become an expert decoder?

Would you like to investigate some mathematical theorems mathematicians are also interested in?

Come and explore fascinating mathematics – The Number Theory World!

This programme is co-organized with Stewards Pooi Kei Primary School.

Schedule

Session	Date	Time	Venue
1	9 Jul	9:15 a.m. – 12:15 p.m.	2 Lok Ha Square, Fo Tan, Shatin, Stewards Pooi Kei Primary School (Map)
2	16 Jul		
3	23 Jul		
4	30 Jul		

Target Participants

- P4 to P6 HKAGE student members only in 2021/22 school year
- Class size: 35
- **Student members who completed "Numbers and Arithmetic Course (Level I): Exploring Numbers (E1MAT001C)" are suggested to apply.**
- *** Priority will be given to student members who are awarded Certificate of Distinction or Certificate of Merit in "Numbers and Arithmetic Course (Level I): Exploring Numbers (E1MAT001C)".**

Pre-requisite

Students should be able to:

- perform basic arithmetic operations;
- understand the application of divisibility of numbers in daily lives.

Screening

Please answer the screening question in the online application form.

*The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the knowledge of Numbers and Arithmetic in the screening question can be enrolled in the programme

Certificate

E-Certificate will be awarded to participants who have:

- attended at least 3 sessions; and
- completed all the assignments with satisfactory performance

Medium of Instruction

Cantonese with Chinese handouts

Enquiries 3940 0101 programme@hkage.org.hk

Sample Notes

陳老師於年初存入本金於銀行作定期。現每月可收到的銀行利息為被313整除的五位數 8_ _ _ _，找出陳老師可收每月利息的範圍。