



E1MAT013C

(Token- required)

**Across Domains and  
Interdisciplinary Course (Level I)**

# Open Up Your Mind 1

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**Application Deadline**  
**18 Jul 2022 12:00 noon**

**Result Release**  
**29 Jul 2022**

## **Intended Learning Outcomes**

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

1. conjecture the pattern of the number sequences by finding out the general terms;
2. effectively use the algorithm on sequences and combinations to solve daily life problems;
3. distinguish the difference among rate, ratio and percentage;
4. apply percentage formulae to different games;
5. communicate and collaborate with teammates to solve authentic math problems in groups.



## ◆ Introduction

We frequently encounter pattern, number sequence, rate, ratio and percentage in daily life. How are these mathematical topics related to us?

This course aims to give students a better understanding of pattern, number sequence, rate, ratio and percentage. Students will experience the practicality and power of mathematics through various applications, problem-solving examples and several mathematical activities.

This programme is co-organized with China Holiness Church Living Spirit College.

## ◆ Schedule

Session	Date	Time	Venue
1	10 Aug	9:00 a.m. – 1:00 p.m.	China Holiness Church Living Spirit College Room 207
2	11 Aug		
3	12 Aug		

## ◆ Target Participants

- P4 to P6 HKAGE student members only in 2021/22 school year
- Class size: 30

This programme is same as Across Domains and Interdisciplinary Course (Level I): Open Up Your Mind 1 (E1MAT013C) in 20/21 school year.

## ◆ Pre-requisite

Students should have a basic understanding of directed number, indices and the operations of fraction.

## ◆ Medium of Instruction

Cantonese with Chinese Handouts

## ◆ 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 an understanding of Mathematics in the screening question can be enrolled in the programme.

## ◆ Certificate

E-Certificate will be awarded to participants who have:

- attended ALL sessions; and
- completed all the assignments with satisfactory performance

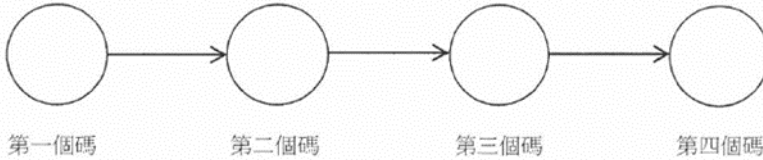


## ◆ Sample Notes

《有限的排列》

探究問題：大門的密碼鎖以 0-9 個四位數字組成，假設數字不能重複，密碼可以有多少個排列數目呢？

思考方向：每個位有多少個數字可以選擇呢？



算式：\_\_\_\_\_ 能用「！」表示算示嗎？ \_\_\_\_\_