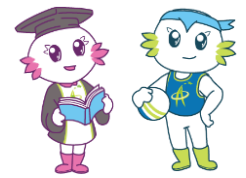




香港資優教育學苑

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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E1MAT007C

(Token- required)

[ **Gifted Programme** ]

**Probability Course (Level I)**

# Probability- When luck meet with Mathematics

Mr. Lo Yat Lung

Caritas Fanling Chan Chun Ha Secondary School, Mathematics Teacher



**Application Deadline**

**1 Jun 2026 12:00 noon**

## **Intended Learning Outcomes**

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

1. compute probabilities with various methods;
2. apply probability concepts and counting skills in solving practical problems;
3. explain basic concepts of probability and use them appropriately;
4. develop logical thinking skills to identify the probabilities and luck in daily life;
5. create a further study plan in Mathematics.

**Result Release**

**8 Jun 2026**

## ◆ Gifted Programme Introduction

Probability concerns the study of uncertain events and its application is highly involved in decision-making in our daily life. This programme allows primary students to explore the meaning of probability and investigate real-life activities related to probability. Case-study approach with project-based learning should be adopted so as to strengthen students' analytical ability, especially in the areas of probability. Many problems in daily life involve counting. Students should learn how to integrate the knowledge of counting principles in solving various daily-life problems. The course aims at broadening students' horizons in Mathematics through the study of Probability.

This programme is co-organized by HKAGE and Caritas Fanling Chan Chun Ha Secondary School.

## ◆ Schedule

Session	Date	Time	Venue
1	27 June 2026 (Saturday)	2:00 p.m. – 5:00 p.m.	Room to be Confirmed  Caritas Fanling Chan Chun Ha Secondary School, 28 San Wan Road, Fanling, N.T.
2	4 July 2026 (Saturday)		
3	11 July 2026 (Saturday)		
4	4 July 2026 (Saturday)		

### ◆ Suitable for

- P4 to P6 HKAGE student members in the 2025/2026 school year
- Class size: 30

### ◆ Pre-requisite

Students should be able to:

- Understand the meaning and simple calculation of percentage;
- Interpret and construct of simple statistical diagrams

### ◆ 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 understand 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 mathematics/probability in the screening question can be enrolled in the programme

### ◆ Certificate

E-Certificate will be awarded to gifted students who have:

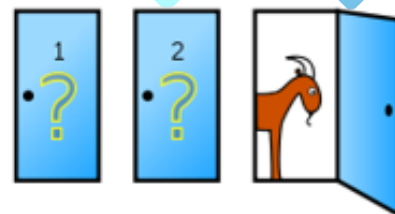
- attended at least 3 sessions; and
- completed all the assignments with satisfactory performance

## ◆ Sample Notes

### (1) Game Theory : Monty Hall problem (蒙提霍爾問題)

(Source : [https://en.wikipedia.org/wiki/Monty\\_Hall\\_problem](https://en.wikipedia.org/wiki/Monty_Hall_problem))

(i) Suppose you're on a game show, and you're given the choice of three doors: Behind one door is a car; behind the others, goats. You pick a door, say No. 1, and the host, who knows what's behind the doors, opens another door, say No. 3, which has a goat.



(ii) He then says to you, "Do you want to pick door No. 2?"

**Question 1 : Will the chance of winning the car increase if you switch the choice?**

Yes / No

**Question 2 : If the answer is Yes in question 1, the chance will be increased to \_\_\_\_\_**

## ◆ Reference Materials

- [1] 蕭文強、林建 (2010)  
概率萬花筒  
教育局「課程發展處數學教育組」
- [2] 川久保勝夫 / 高淑珍 譯 (2003)  
圖解數學基礎入門  
世茂出版社
- [3] Amir D. Aczel / 邱文寶 譯 (2006)  
大於二分之一 - 投資、愛情、生活的獲勝機率日  
究竟出版社股份有限公司
- [4] 野口哲典 / 張珊 譯 (2010)  
你的人生，需要多懂一點機率  
漫遊者文化事業股份有限公司
- [5] Rob Eastaway and Jeremy Wyndham / 蔡承志 譯 (2014)  
一條線有多長 — 生活中意想不到的 116 個數學謎題  
城邦文化事業股份有限公司  
How Long is a Piece of String  
Robson Books
- [6] Michael M. Woolfson / 王繼延、吳穎康、程靖、戴浩暉 譯 (2010)  
人人都來擲骰子：日常生活中的概率與統計  
上海科技教育出版社  
Everyday Probability and Statistics : Health, Elections, Gambling and War (2008)  
Imperial College Press