



Probability- When luck meet with Mathematics (MATP1521)

Introduction Probability concerns the study of uncertain events and its application is highly involved in decision-making in our daily life. However, as a classic topic in Mathematics, Probability is often presented through dull, repeated and complicated lessons in secondary school curriculum. This programme should allow 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 that can be simple or complicated and tedious. Students should learn how to integrate knowledge of counting principles in solving various daily-life problems. The course aims at broadening students' horizons in Mathematics through the study of Probability.

Programme Type / Level Discrete Math, Probability, Statistics Course (Level 1) ([Token-required](#))

Instructor(s) Mr. Siu Wai Yee (Carmel Secondary School, Mathematics Teacher)


Pre-requisite Students should be able to:

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


Target Participants

- P4 to P6 HKAGE student members
- Class size: 30


Medium of Instruction  English with English Notes

Certificate  **E-Certificate** will be awarded to participants who have:

- ❖ Attended **AT LEAST 3** sessions AND
- ❖ Completed all the assessments with satisfactory performance.

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

- Use various methods to compute probabilities in appropriate ways;
- Recognize real-life activities related to probability;
- Apply various counting skills in solving practical problems;
- Explain basic concepts of probability and use them appropriately.

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 mathematics/probability in the screening question can be enrolled in the programme.

Application Deadline **21 Jan, 2019** **Application Result Release Date** **1 Feb, 2019**

Student members may withdraw from the programme on or before the deadline. Otherwise, the token will be deducted.

Schedule



Session	Date	Time	Venue
1	4 May,2019	2:00 p.m. – 5:00 p.m.	Carmel Secondary School*
2	11 May,2019		
3	18 May,2019		
4	25 May,2019		

*Address: 55 Chung Hau Street, Homantin, Kowloon ([MAP](#))

Sample Example for the Programme

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

(Source : 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 _____

Enquiries



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