Multidimensional Mathematical Minds (M³) Programme

數智多維計劃

About the Programme | 關於本計劃

The M³ (Multidimensional Mathematical Minds) Programme is organised by the Department of Mathematics of the Faculty of Science at The University of Hong Kong (HKU). It mainly aims at gifted local junior secondary school students with a strong passion for mathematics. Its objectives are as follows:

- **To broaden the horizons of students in mathematics.**

- **To solidify students' mathematical knowledge base and enhance their problem-solving skills in mathematics.**

- **To provide an environment of learning mathematics that is fun, challenging, professional, and with teacher and peer support.**
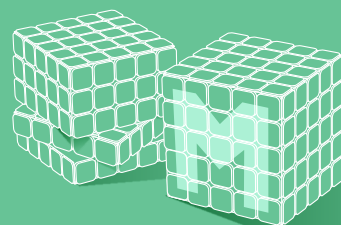
The programme will prepare students for their pursuit of mathematics in various ways. Students will find the knowledge and skills in the programme helpful when they subsequently engage in problem-solving activities, pursue further studies or conduct research in mathematics or related areas.

數智多維計劃（Multidimensional Mathematical Minds）由香港大學理學院數學系主辦，主要對象為熱愛數學的本地初中資優學生。計劃的目標包括：

- 擴展學生的數學視野；

- 鞏固學生的數學知識基礎，並提升其數學解題能力；

- 提供一個有趣、具挑戰性和專業的學習氛圍，讓學生在導師和同儕的支持下學習數學。

本計劃將從不同層面幫助學生研習數學，所學的知識和技巧將有助學生將來在數學或相關領域進行解題、進修或學術研究。

Course Structure and Details
課程結構及詳情

The course consists of multiple modules to be offered on a recurring basis, each focusing on one particular area of mathematics. Applicants are free to enrol in one or multiple modules. Normally, a module will consist of five 3-hour class sessions held during school holidays or weekends. Built upon what will generally be covered in the junior secondary curriculum, the programme intends to go both broader and deeper into the topics by introducing further knowledge not normally covered in the curriculum and engaging students in solving related problems that may require creative and ingenious skills.

Classes will be held at the HKU campus. English will be used as the medium of instruction.

The schedules of the upcoming modules are listed on the programme website.

課程由不同單元組成,每個單元圍繞一個數學專題,各單元會不定期輪流重推。申請人可自由選擇報讀一個或多個單元。每個單元通常由五節、每節三小時的課堂組成,課堂安排在學校假期或週末進行。本計劃希望在常規初中課程的基礎上,讓學員更廣泛和深入地認識相關課題,包括引入常規課程以外的進一步知識,並引導學員運用創新和靈活的技巧來解題。

課堂將於香港大學校園內進行,並以英語授課。

關於即將推出的單元詳情,請參閱計劃網頁。

Teachers | 師資

Each module will be taught by a teacher in the Department of Mathematics or a guest teacher with a similar academic background.

Dr LAW Ka Ho, Associate Head (Teaching and Learning) of the Department of Mathematics, is the Programme Coordinator, and Dr CHING Tak Wing, Lecturer in the Department of Mathematics, is the course leader.

每個單元均由一名數學系的老師或一名具同等學術背景的外聘導師任教。

數學系副系主任(教學)羅家豪博士擔任計劃統籌,數學系講師程德永博士則擔任課程主任。

Target Students and Screening
對象學生及選拔

The programme generally targets **junior secondary school students in Hong Kong** (Secondary 1-3 / Year 8-10 / Grade 7-9) with strong interests and talents in mathematics. Different prerequisite requirements may exist for different modules as each module focuses on a different topic.

Each module will be limited to 30 students to ensure they receive the necessary individual support.

Students should take a screening test before enrolment. For details, please refer to the programme website.

本計劃主要招收對數學具有濃厚興趣和天份的**本地初中生**(中一至中三 / 英國學制八至十年級 / 美國學制七至九年級)。視乎各單元的課題,個別單元可能會有先備知識要求。

為確保每位學員得到充分的個人支援,每個單元的收生上限為 30 人。

學員報名前須先參加選拔測驗。詳情請參閱計劃網頁。

Assessment | 評核

Assessment will be held at the last class session of each module. Certificates will be awarded to students based on their assessment results. Please refer to the programme website for details.

每個單元的最後一節課設有測驗作為課程評核。學員可按其評核表現獲得證書。詳情請參閱計劃網頁。

Course Fee and Scholarship
學費及獎學金

The course fee is HK$4,000 per module. Full scholarship (in the form of a 100% reduction of course fee in one module) and half scholarship (in the form of a 50% reduction of course fee in one module) will be offered on the basis of needs and performance. Please refer to the programme website for details.

每單元的學費為港幣 4,000 元。本計劃另設全額獎學金(減免一個單元學費的100%)和半額獎學金(減免一個單元學費的50%),獎學金並分為按需要及按表現頒發兩種。詳情請參閱計劃網頁。

Programme Website
計劃網頁
https://bit.ly/M3-Programme

Application Deadline | 截止報名日期:

April 7, 2025 (Monday)
2025年4月7日 (星期一)

(for the first screening test | 第一次選拔測驗)

Enquiry | 查詢:
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