



余振強紀念第二中學
Yu Chun Keung Memorial College No.2

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中四級科目選修意向表

各位中三級家長：

中三級即將面對高中選科，為此，校方邀請各家長就可供選修之科目，按貴子女的個人能力、興趣、升學目標等方向，與子女一起討論及選擇科目。

下學年高中課程，學生須修讀的科目如下：

核心科目：中文、英文、數學、通識(待重新冠名)	4 科	及
A. 選修科目 (註 1)	2 科	及
B. 增修科目 (註 1, 2)	1 科	
(i) 數學延伸部份 單元一/二 或		
(ii) 應用學習 —— 航空學 或		
(iii) STEAM		

(註 1) 有關科目最終能否開辦，乃依學校發展需要、課程提供機構之客觀因素而定。

(註 2) 配合教育局「優化高中四個核心科目政策」而增設。

為便利初步統計人數，學生須把已填妥之調查表，於 2021 年 4 月 8 日（星期四）前交回班主任。如有查詢，可與班主任或教務主任侯漢樑老師(hlhau@yck2.edu.hk)聯絡。

李德輝校長 謹啟

二零二一年三月十一日

認識真理、實踐真理、持守真理

【中四級科目選修意向表】

A. 選修科	選修意願(1-3) (1 代表意願最強)
物理	
化學	
生物	
經濟	
中國歷史	
體育	
視覺藝術	
宗教與倫理	

B. 增修科	選修意願(1-3) (1 代表意願最強)
數學延伸部分單元一或二	
應用學習 —— 航空學	
STEAM	

(上述學科簡介見附件)

學生姓名：_____ 班別：中三 _____ () 家長簽署：_____

二零二一年____月____日

B. 數學科延伸部份 單元一或二

數學科延伸部分是為日後進修及工作中需要更多數學知識和技能的學生而設，也為對數學有興趣和具備足夠程度、可因修讀更多的數學而受益的學生提供多一個選擇。延伸部分旨在拓展學生在必修部分以外的視野。學生若修讀延伸部分，須處理一些較必修部分更為複雜的問題。

延伸部分提供兩個單元供學生選擇，分別為單元一（微積分與統計）及單元二（代數與微積分）。學生最多只容許修讀一個單元。

單元一（微積分與統計）是為那些將來在學科或職業上需要更多及更深入的數學知識、並希望在中學階段多學習一些數學應用的學生而設，它旨在：

- 提供必修部分以外的技能與概念；
- 強調數學的應用性多於其嚴謹性，從而擴闊學生在數學方面的視野；及
- 提供微積分與統計的直觀概念、相關基本技能及有用工具，為學生將來深造和就業作準備。

單元二（代數與微積分）是為那些希望從事與數學有關的職業、並希望在中學階段學習更高深的數學知識的學生而設，它旨在：

- 提供必修部分以外的技能與概念；
- 強調數學的理解，以便學生將來學習涉及較多數學知識的學科；及
- 幫助學生為將來深造和就業作準備，建立穩固的代數與微積分的基礎。

課程內容可參閱以下連結：

https://www.edb.gov.hk/attachment/tc/curriculum-development/kla/ma/curr/CA_2017_tc.pdf

資料來源：課程發展議會與香港考試及評核局聯合編訂《數學教育學習領域課程及評估指引（中四至中六）》

B. Mathematics Extended Part (M1 / M2)

The Extended Part is designed for students who need more mathematical knowledge and skills for their future studies and careers, and for those whose interests and maturity have been developed to a level that enables them to benefit from further mathematical study in different areas. The Extended Part aims at extending students' mathematical horizons beyond the Compulsory Part. Students have to handle more complicated problems in the Extended Part than in the Compulsory Part.

Two modules are offered as choices for students in the Extended Part. They are Module 1 (Calculus and Statistics) and Module 2 (Algebra and Calculus). Students are allowed to take at most one of the two modules.

Module 1 (Calculus and Statistics) is intended to cater for those students who will be involved in disciplines or careers which demand a wider scope and deeper understanding of mathematics, and for those who would like to learn more mathematical applications at the senior secondary level. It aims to:

- provide students with skills and concepts beyond the Compulsory Part;
- emphasise applications rather than mathematical rigour with a view to widening students' perspectives on mathematics; and
- provide students with intuitive concepts of calculus and statistics, related basic skills and useful tools for their future studies and careers.

Module 2 (Algebra and Calculus) is designed to suit the needs of students who will be involved in mathematics-related fields and careers, and those who would like to learn more in-depth mathematics at the senior secondary level. It aims to:

- provide students with skills and concepts beyond the Compulsory Part;
- emphasise understanding of mathematics for further progress in mathematically inclined disciplines; and
- provide students with a concrete foundation in algebra and calculus for their future studies and careers.

The link for detailed Curriculum and Assessment guide :

https://www.edb.gov.hk/attachment/en/curriculum-development/kla/ma/curr/CA_2017_e.pdf

B. 應用學習課程 —— 航空學

應用學習是高中課程的選修科目之一，課程內容實踐與理論並重，與寬廣的專業和職業領域緊密連繫，配合核心科目、選修科目及其他學習經歷，構成靈活的科目組合，讓學生體驗全面的學習經歷。學生可以從課程中學習相關的基礎理論和概念，發展入門技能、與職業相關的能力及共通能力，探索自己的事業抱負和終身學習方向。

下學年開辦應用學習科目： 航空學(Aviation Studies)

提供課程機構：香港大學專業進修學院(HKU SPACE)

課程內容與及相關資訊可參閱以下網頁：

<https://www.apl.hkuspace.hku.hk/aviation>

B. Applied Learning — Aviation Studies

Applied Learning (ApL) courses are elective subjects within the senior secondary curriculum. ApL offers studies with equal emphasis on practice and theory linked to broad professional and vocational fields. A flexible combination of ApL with core subjects, elective subjects and Other Learning Experiences helps provide students with holistic learning. ApL aims to enable students to understand fundamental theories and concepts, develop their beginners' skill set, career-related competencies and generic skills. ApL helps students explore their career aspirations and orientation for lifelong learning.

ApL courses offered next year : Aviation Studies

Course provider : HKU SPACE

The course content and related information can be found on the following webpages :

<https://www.apl.hkuspace.hku.hk/aviation>

B. STEAM 教育

STEAM 高中課程旨在培養學生創意及解難能力，並提高綜合學科的協作技巧。學生透過跨科學習元素，可以更好地裝備自己，迎合社會發展的需要。

課程內容會包括：

室內設計、軟硬件編程、機械人製作、手機應用程式開發及遊戲軟件開發、電腦平面繪圖設計、三維立體建模等。

課程將推動學生參與學界 STEAM 相關的比賽（機械人足球、機械人擂台、任務及解難賽等等），讓學生有多元化的 STEAM 體驗。

B. STEAM Education

The STEAM curriculum for senior forms aims to cultivate the innovation and creativity of students, improve their problem-solving skills and integrate the knowledge of different subjects. By introducing interdisciplinary integration in the curriculum, students will be well-equipped to meet future challenges. The curriculum will include :

interior design, mobile apps development and gaming development, hardware and software programming, robotics, vector graphic design and 3D modelling, etc. Students will participate in local STEAM related competitions including robotic soccer, sumo, mission-based tournaments, and experience multi-disciplinary STEAM topics in various aspects.