



聖公會李福慶中學  
SKH LI FOOK HING  
SECONDARY SCHOOL

STEAM 教育學與教和評估系列：

提升教師在學校教授及應用人工智能的能力

中學分享：應用人工智能促進學與教效能

16:05 - 16:35 3 July 2023





聖公會李福慶中學

SKH LI FOOK HING SECONDARY SCHOOL

## 陳俊銘主任（借調老師）

資訊科技統籌員 & 資訊科技教育負責人

教授科目: IT/ICT/Maths/LS

**MVT, MSIE, Google Certified  
Trainer, Apple Teacher in iPad  
& Mac, VR/AR, eLearning, etc...**



創辦於1996，位於香港柴灣的一間津貼男女中學。

# 應用人工智能促進學與教效能

(一) 一直以來，本地公營中小學均須根據課程發展議會所公布的課程指引規劃及推行課程，讓學生透過多元化的學習經歷建構知識、發展共通能力，培養正確的價值觀和態度，以及「學會學習」的能力，以達至全人發展和終身學習的教育目標。如學校運用人工智能於教學，包括製作教學材料或學習評估等，教師必須作專業判斷，並按課程指引、學生能力及學習需要等，確保所採用的方式及編製的資料，配合課程的宗旨和目標，而不會對學生的思維發展、知識基礎的建立，以及培養學習興趣、態度和習慣等造成負面影響。就此，教育局持續為教師提供有關人工智能的培訓，包括應用人工智能於提升學與教效能。我們亦與專上院校和創科機構合辦有關創科的教師專業培訓，包括以人工智能和物聯網為題的研討會暨展覽，以協助教師善用創新科技及正確教導學生。



AI generated image by Microsoft Designer





# 應用人工智能促進學與教效能

(二) 教育局已制訂《教師專業操守指引》，清晰說明教師應有的專業操守及行為規範，包括培育學生正面的價值觀和態度，裝備學生所需具備的知識和技能，協助學生建立慎思明辨和終身學習的能力。教師須守法守規、尊重知識產權、認真執行職務，給予學生正面和有效的指導。教師亦應與時並進，不斷優化教學方法。因此，教師須恪守專業操守，審慎使用人工智能應用程式輔助教學工作。

教師在引導學生善用創新科技及資訊科技工具（包括如何使用人工智能）時，須同時着重培育學生成為具道德操守的科技使用者。在中小學階段不當使用人工智能，會影響學生循序漸進建構知識基礎和培育創新思維，甚或產生如抄襲或由人工智能代做課業等不良影響；使用人工智能亦應視乎學生的年齡、相關學習階段的學習期望和成果、課業的性質和課題（例如是自學或是進行評估）等。我們須保持審慎的態度。

教育局已於二〇二二年公布更新《香港學生資訊素養》學習架構，當中加入創新科技應用所涉及的道德議題，以提升學生的媒體和資訊素養，引導他們學會以慎思明辨的態度，選取及理解不同形式資訊，正確運用資訊解決問題，同時更要懂得分辨資訊的真偽，學會在符合道德的前提下有效運用資訊及資訊科技。

此外，教育局正發展初中人工智能課程單元，以及高小增潤編程教育課程單元，讓學生能更了解和掌握科技和創新科技的最新發展及其應用，並明白科技如何改善日常生活和推動社會發展。上述初中課程單元涵蓋人工智能基礎及倫理、計算機視覺、電腦語音，以及人工智能對社會的影響等知識和概念；高小課程單元則涵蓋編程和計算思維概念，透過學習編程以培養學生的計算思維。上述課程單元預計於本年稍後時間推出並供學校使用。教育局亦提供相關的教師專業發展課程，提升教師的教學效能。

## 初中人工智能課程單元

學與教資源

說明

初中人工智能課程單元 (第一冊)  
(初稿，最後更新於 19.06.2023)

第一冊

初中人工智能課程單元 (第二冊)  
(初稿，最後更新於 19.06.2023)

第二冊

初中人工智能課程單元 (第三冊)  
(初稿，最後更新於 19.06.2023)

第三冊

\*學生版有待上傳

\*工作紙、簡報表有待上傳

<https://www.edb.gov.hk/landT>





# 應用人工智能促進學與教效能

(三) 教育局已就課程及評核制訂指引，讓學校依循及採用合適的評估模式跟進學生的學習表現和進度。學校應建立相應的執行和監督機制，以防止學生不當使用人工智能程式來完成作業／評核。教師是專業的教育工作者，可根據學生課堂上的表現及其進展性評估結果與課業表現作對照，以判斷學生有否使用工具（包括人工智能程式）進行抄襲。同時，學校應加強資訊素養教育，培養學生有效且符合道德地使用資訊及資訊科技的相關能力和態度。

創新科技（例如生成式人工智能）的發展對學生學習的影響有待學術界進一步研究。教育局會不斷留意最新情況，並會適時更新相關課程和指引的內容，以及為教師舉辦研討會與工作坊，協助他們教導學生認識及善用創新科技。

香港聖公會何明華會督中學屬中大賽馬會「智」為未來計劃的先導學校，校長金偉明稱，教學主要從素養角度出發，教學生小心應用，留意內容真確、版權及私隱問題。他稱，學校沒禁止學生用 ChatGPT，建議他們可參考內容、以此擴闊思維空間，但已向學生解說清楚，直接取內容會被視為「抄功課」。

<https://news.mingpao.com/pns/%E6%95%99%E8%82%B2/article/20230620/s00011/1687192935637/%E6%95%99%E5%B1%80%E6%8E%A8%E5%88%9D%E4%B8%ADai%E6%95%99%E6%9D%90-%E7%9B%BC%E4%B8%8B%E5%AD%B8%E5%B9%B4%E8%A8%AD%E5%96%AE%E5%85%83-%E5%85%A7%E5%AE%B9%E5%8C%85%E6%8B%ACchatgpt-%E6%8F%90%E7%95%99%E6%84%8F%E6%8A%84%E8%A5%B2%E8%AA%A0%E4%BF%A1%E6%93%94%E6%86%82>

<https://www.info.gov.hk/gia/general/202305/24/P2023052400282.htm>



# Past



<https://inside.ewu.edu/managementtoolbox/three-before-me/>

## Ask 3,



**1** Ask one of your peers.

**2** Look at posters on the wall.



**3** Read a book in our classroom or search on the computer.

## before me.

Pinterest.dk

Alternative to brain buddy book boss, Teaching, Reading classroom, Student encouragement

Teach Starter.com



# Generation Z

## 5 Reasons Why Explainer Videos Are Ideal For Teaching Generation Z



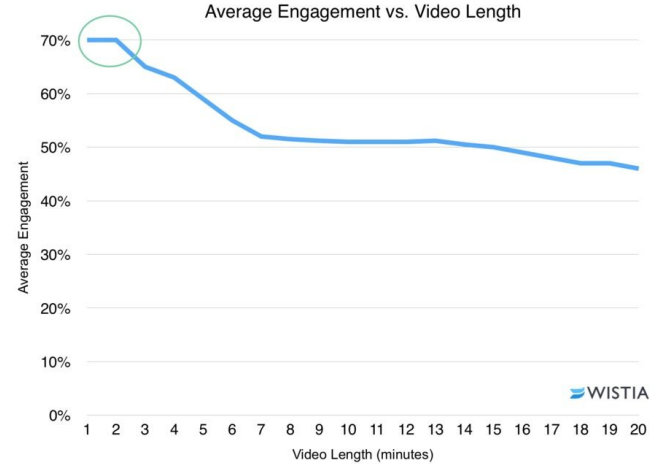
**70%**  
of Gen Z students  
agree that  
technology helps  
them learn

**92%**  
are online on  
a daily basis

their **8 sec**  
attention span  
needs a simple  
and fast message

**2-4 hours**  
of video content  
consumed a day

**10+**  
hours of  
tech use a day

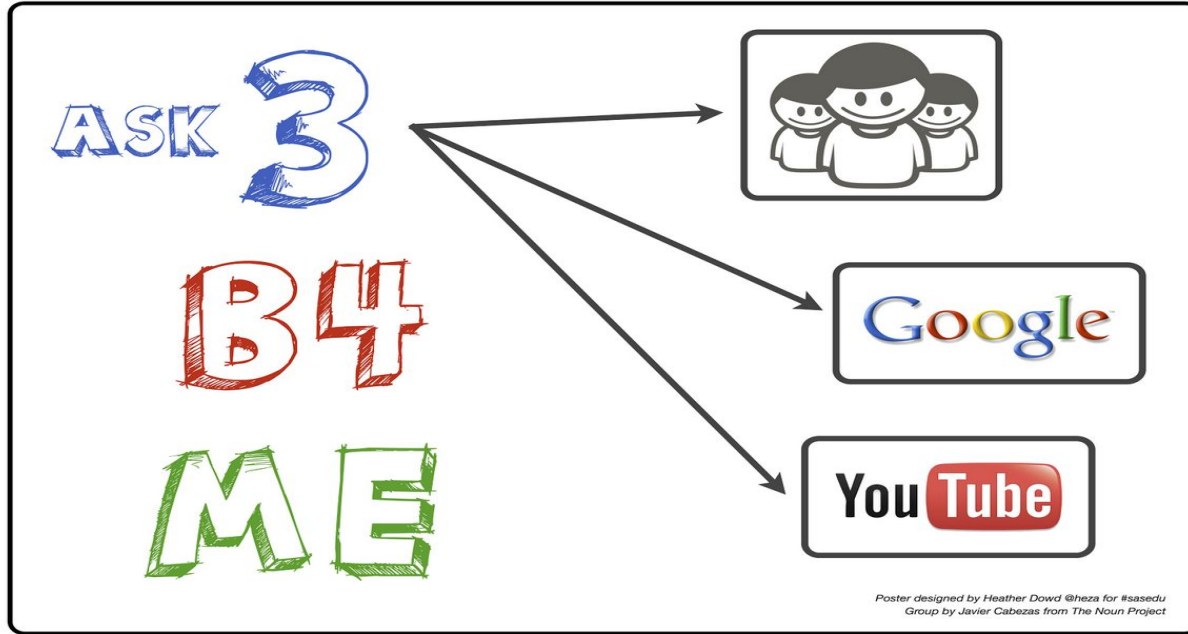


$$\text{Time} = \text{Age} * 1.5$$



Image by Heather Dowd (@heza)  
<https://andreahalverson.wordpress.com/2016/01/26/the-new-ask-3-before-me/>

# Nowadays



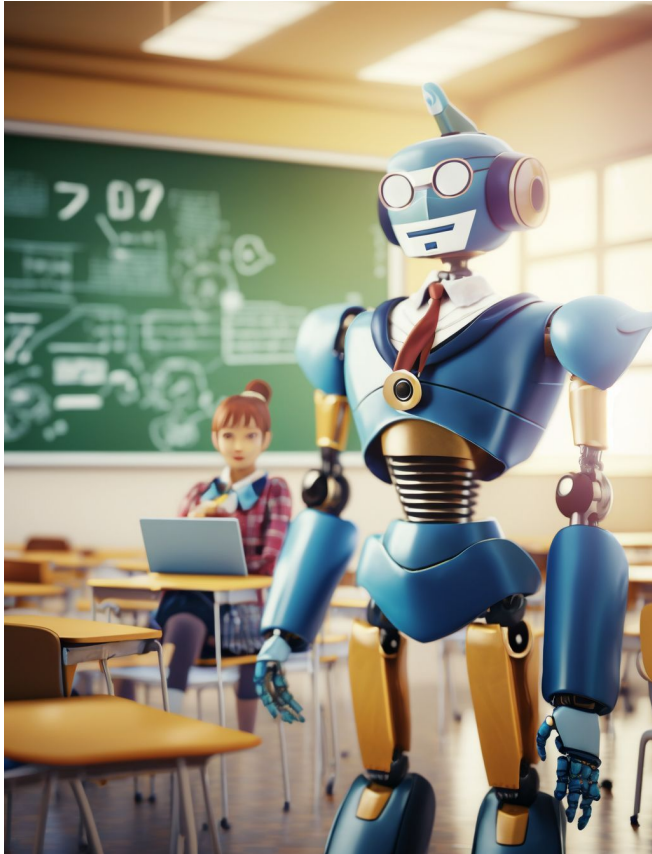
<https://www.mushroomnetworks.com/infographics/youtube--the-2nd-largest-search-engine-infographic>

Youtube become the world second large search engine.

67% of millennials agree that they can find a youtube video to learn they want.



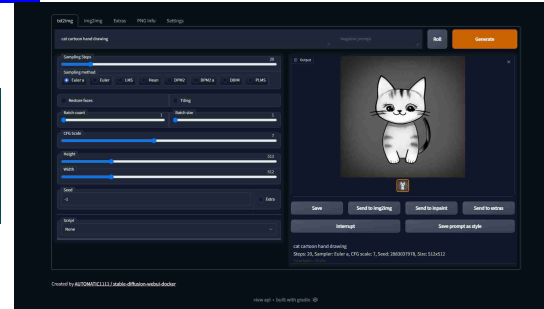
# 創科熱話 人工智能與教育



此圖片透過Midjourney 人工智能生成



<https://www.kapwing.com/resources/content/images/2022/10/Midjourney-homepage.png>



<https://user-images.githubusercontent.com/24505302/189541954-46afd772-d0c8-4005-874c-e2eca40c02f2.jpg>

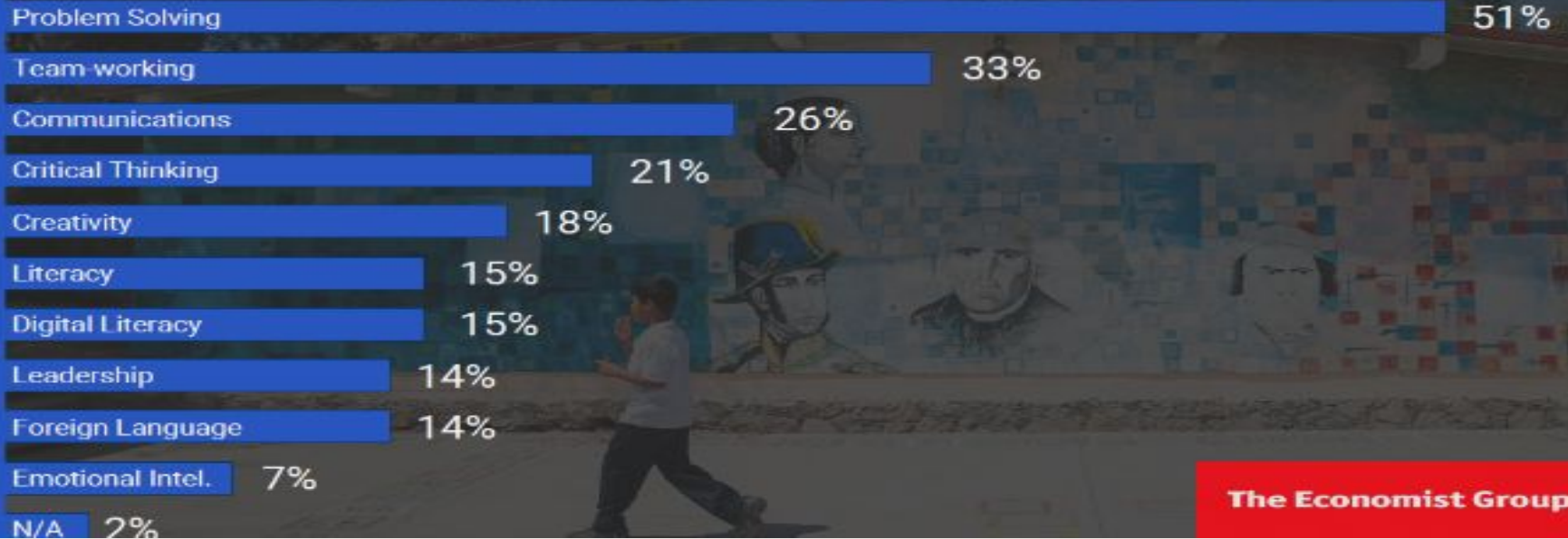


[https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTl43uYAEc-leb8MkKWi00RDT7eVHyD\\_qFEQ&usqp=CAU](https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcTl43uYAEc-leb8MkKWi00RDT7eVHyD_qFEQ&usqp=CAU)



# Skills in Workplace

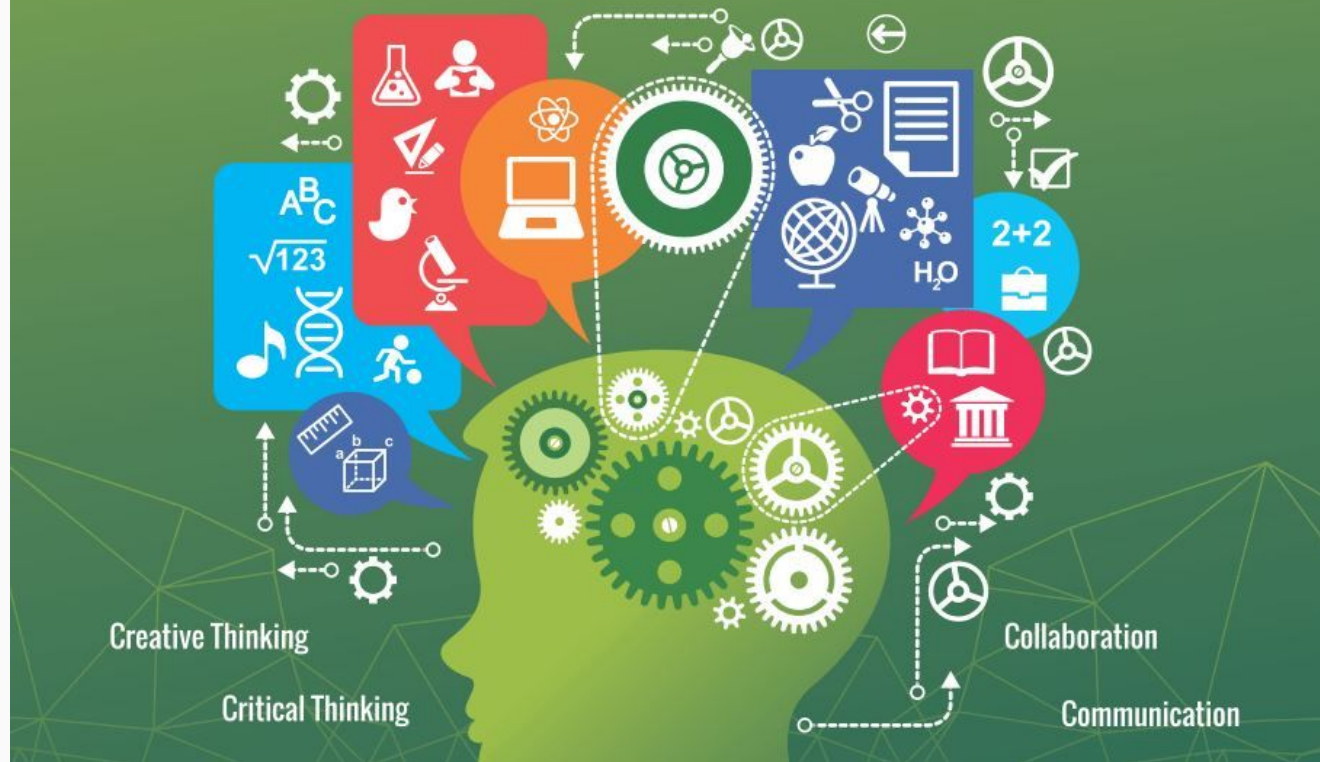
## Top Skills Currently Needed in the Workplace



The Economist Group



# 4C'S OF 21<sup>ST</sup> CENTURY SKILLS





# The future of learning

# Learning to Learn 2+ — The Hong Kong School Curriculum

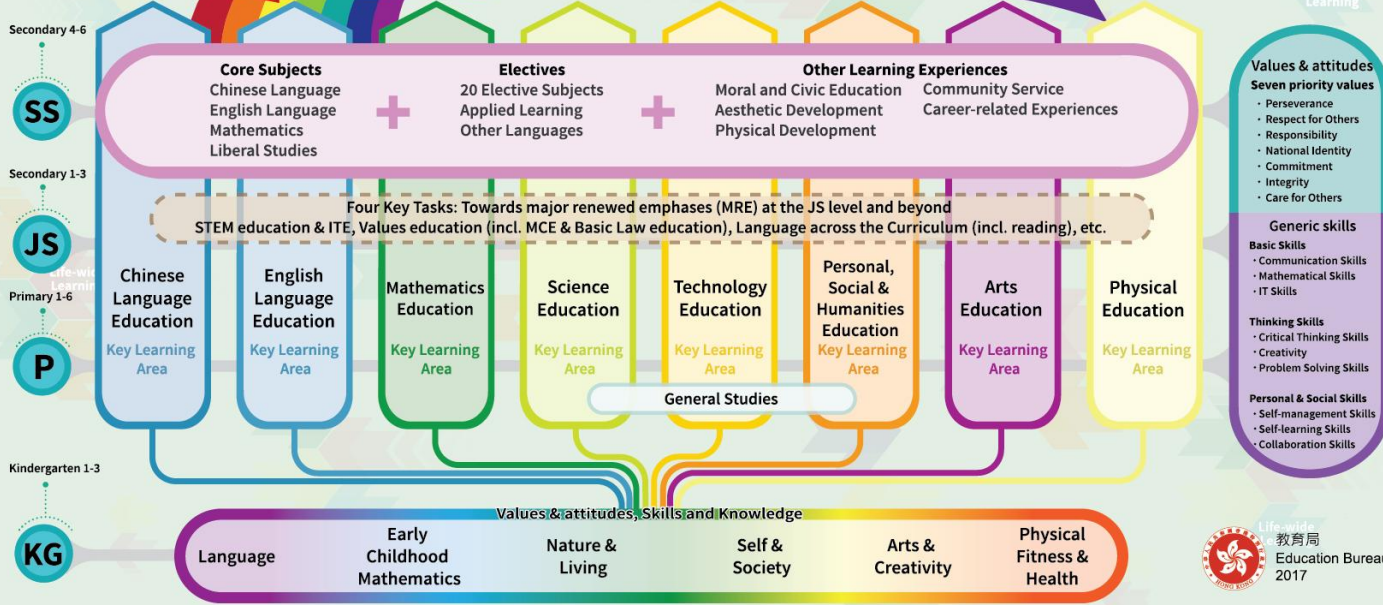
A broad and balanced curriculum with diversification and specialisations (choices) for academic, professional and vocational development according to students' needs

**Nurturing lifelong & self-directed learning capabilities**

**Fostering whole-person development**

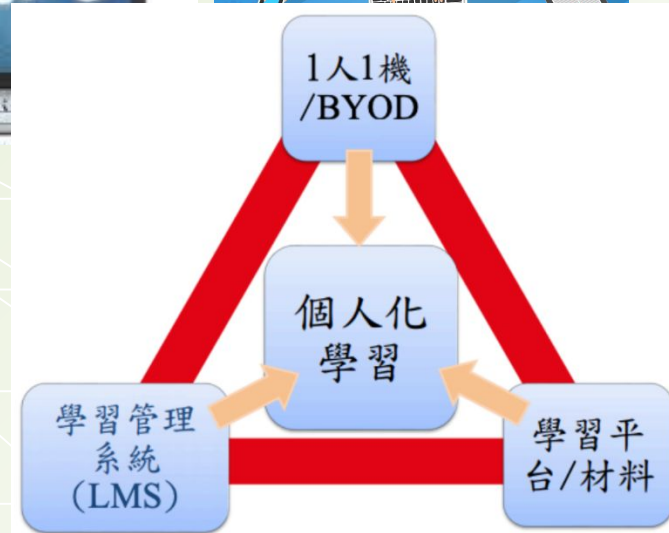
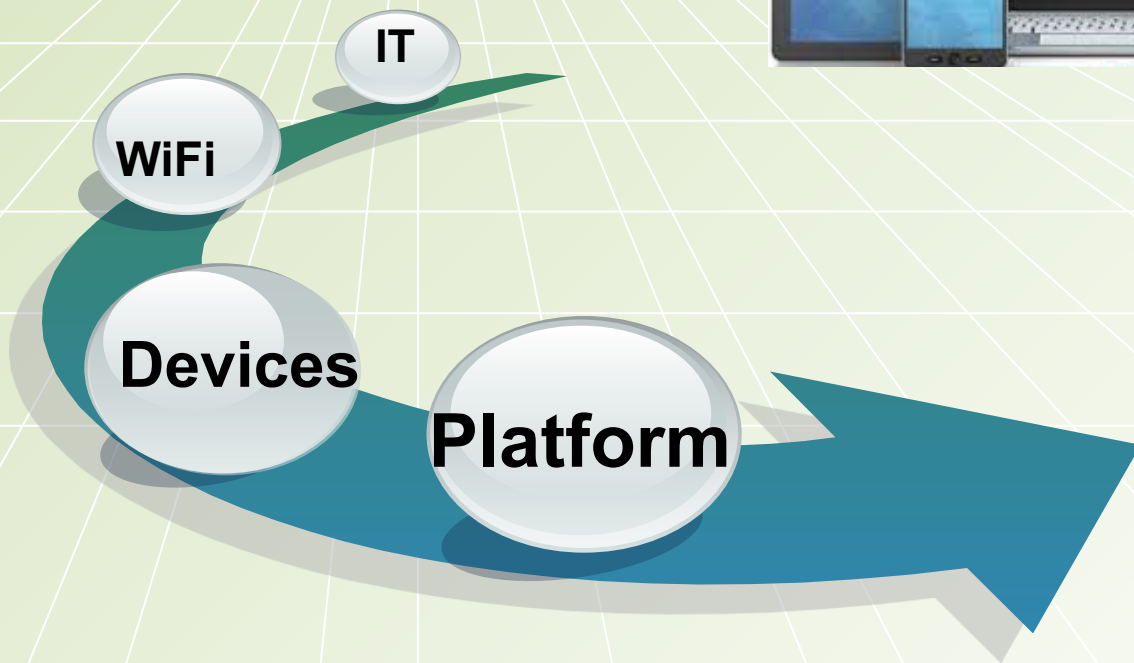
## SEVEN LEARNING GOALS

**FIVE ESSENTIAL LEARNING EXPERIENCES**  
 Moral and Civic Education    Intellectual Development    Community Service    Physical and Aesthetic Development    Career-related Experiences





## 學校數碼基建規劃



## 擁抱ChatGPT？新加坡將指導師生用AI工具學習 政府用它草擬文件

撰文：房伊嫻  
出版：2023-02-26 15:50 更新：2023-02-27 17:14



人工智能（AI）聊天機械人程式ChatGPT在全球流行，但各地政府或機構應擁抱此工具抑或防止僱員與學生使用它，成為具爭議的話題。新加坡教育部長陳振聲2月就稱，星國會指導老師和學生用AI工具來教學及學習。新加坡政府並將用ChatGPT來草擬文件。

新加坡教育部會指導學校和高等院校的教師用包括ChatGPT在內的AI工具來加強學生的學習能力。陳振聲2月6日對國會說，教育工作者設有專業討論小組，以探討使用AI工具的方式。

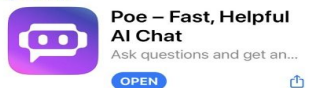
### 先要學生掌握基本概念

他把使用ChatGPT學習比喻作「用計數機學習數學」，但只有當學生掌握基

使用ChatGPT學習比喻作「用計數機學習數學」，但只有當學生掌握基本概念和思維能力時，ChatGPT才能成為有效的學習工具。他指因此教育部會令學生掌握負責任地使用AI工具的技能。

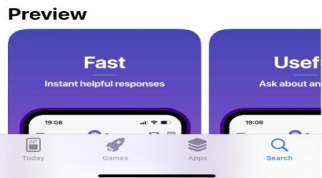
原文網址：擁抱ChatGPT？新加坡將指導師生用AI工具學習 政府用它草擬文件 | 香港01

<https://www.hk01.com/article/871401?>



35 RATINGS	AGE	CHART	DEVELOPE
4.7 ★★★★	12+ Years Old	No.1 Utilities	Quora, Inc

**What's New** Version History  
Version 1.1.6 10h ago  
Invitations are no longer required.  
Please note: While we address scalability issues from launch, we're requiring [more](#)



# 還原基本步

# 資訊素養

# (Information Literacy)

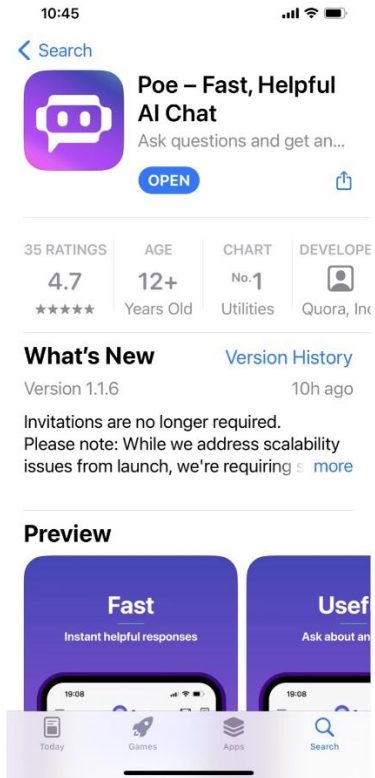


<https://static.tnn.in/photo/msid-97935619,width-100,height-200,resize-mode-75/97935619.jpg>



[https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRleoFTMHfO\\_lfK4Ko1D5pCbijmyOGKyJVuixT1mQXcunUIEIXarTHXT2V8-khmqs](https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRleoFTMHfO_lfK4Ko1D5pCbijmyOGKyJVuixT1mQXcunUIEIXarTHXT2V8-khmqs)

# POE (Apps & WebPlatform)



10:45

Search

## Poe – Fast, Helpful AI Chat

Ask questions and get an...

OPEN

35 RATINGS 4.7 ★★★★★

AGE 12+ Years Old

CHART No.1 Utilities

DEVELOPER Quora, Inc

### What's New

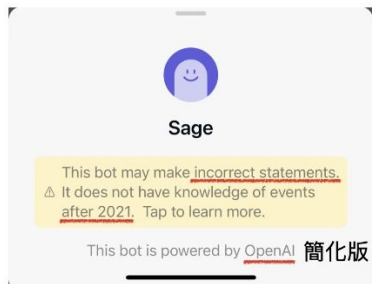
Version 1.1.6 10h ago

Invitations are no longer required. Please note: While we address scalability issues from launch, we're requiring [s more](#)

### Preview

Fast Instant helpful responses

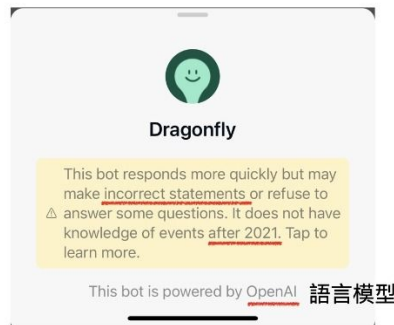
Useful Ask about an



### Sage

This bot may make incorrect statements.  
△ It does not have knowledge of events after 2021. Tap to learn more.

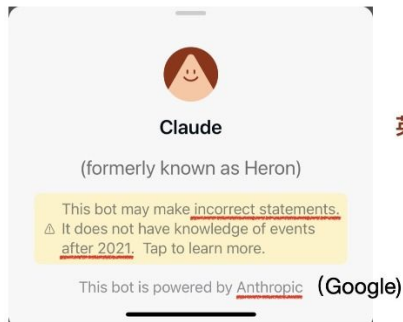
This bot is powered by OpenAI 簡化版



### Dragonfly

This bot responds more quickly but may make incorrect statements or refuse to answer some questions. It does not have knowledge of events after 2021. Tap to learn more.

This bot is powered by OpenAI 語言模型



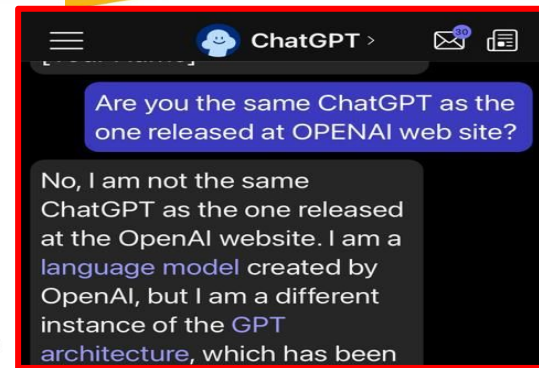
### Claude

(formerly known as Heron)

This bot may make incorrect statements.  
△ It does not have knowledge of events after 2021. Tap to learn more.

This bot is powered by Anthropic (Google)

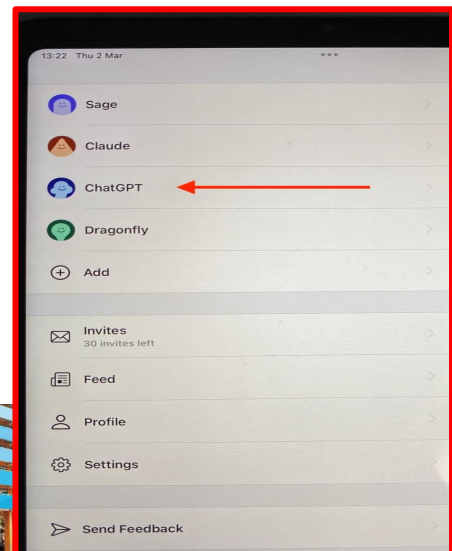
英文較好



ChatGPT

Are you the same ChatGPT as the one released at OPENAI web site?

No, I am not the same ChatGPT as the one released at the OpenAI website. I am a language model created by OpenAI, but I am a different instance of the GPT architecture, which has been



13:22 Thu 2 Mar

- Sage
- Claude
- ChatGPT ←
- Dragonfly
- Add
- Invites 30 invites left
- Feed
- Profile
- Settings
- Send Feedback



# ChatGPT, POE, Bing ChatGPT



以下是ChatGPT、Sage和GPT-3之間的詳細比較表格：

	Poe內置的ChatGPT	Sage	GPT-3
參數數量	1.75億	30-40百萬	1750億
存取方式	免費提供	免費提供	OpenAI API 訂閱費用
功能	處理和生成自然語言，功能比較有限	回答各種不同的查詢	文本自動完成、語言翻譯、編程等
訓練數據	訓練數據也是廣泛的，但沒有GPT-3那麼大	GPT-3的訓練數據比我的語言模型更大、更多樣化，包含更多種類的文本	訓練了大量的文本數據，包括書籍、文章和網站文本
特定模型	通用模型	N/A	多個任務特定模型，如翻譯、摘要和問答
可用性	免費提供	免費提供	OpenAI API 訂閱費用


## Comments

- Question in POE will be truncate or controlled
- Answer is short and less useful in POE
- POE lack of fine tune parameters
- Microsoft, which combines ChatGPT in Bing, users will be limited to only 5 questions at a time, and a maximum of 50 questions per day






# ChatGPT (chat.openai.com)

- + New chat
- Midjourney Prompt
- 學校通告
- Maths
- English
- Microbit
- Reading Report - Speech
- ICT Question
- 幼兒教案
- Setup Windows AD Server V
- Sci Story
- Move to Paperless Class
- Midjourney
- Clear conversations
- Upgrade to Plus **NEW**
- Dark mode
- Updates & FAQ
- Log out

Send a message 

ChatGPT may produce inaccurate information about people, places, or facts. [ChatGPT May 24 Version](#)


## ChatGPT

 Examples	 Capabilities	 Limitations
"Explain quantum computing in simple terms" →	Remembers what user said earlier in the conversation	May occasionally generate incorrect information
"Got any creative ideas for a 10 year old's birthday?" →	Allows user to provide follow-up corrections	May occasionally produce harmful instructions or biased content
"How do I make an HTTP request in Javascript?" →	Trained to decline inappropriate requests	Limited knowledge of world and events after 2021

### Limitations

- **Incorrect information occasionally (Incorrect)**
- **Limited knowledge of world and events after 2021 (Outdated)**

While history is disabled, new chats will be deleted from our systems within 30 days – and reviewed only when needed to monitor for abuse – and won't be used for model training.



[ChatGPT Feb 13 Version](#) - Free Research Preview. Our goal is to make AI systems more natural and safe to interact with. Your feedback will help us improve.



# Win 11 迎重大更新 搜尋欄結合 ChatGPT 功能



**任何問題都能問**

提出問題 - 內容不詳長、短，或介於兩者之間，問題內容越精確，就越能得出最佳解答。

Create a 3-course menu.

Help plan my special anniversary trip.

What art ideas can I do with my kid?

Can you help me get fit?

Write a rhyming poem.

Help me plan for my fishing trip.

**答案只是個開始**

全新的 Bing 會針對您的問題，提供內容、圖片和音訊，以完整的語義、語法，以及相關的資訊為您提供協助。

管理您工作的待辦事項，要執行複雜的任務，請諮詢您的團隊。這能確保您了解團隊的任務，並確保您能滿足需求，並提高團隊的效率。

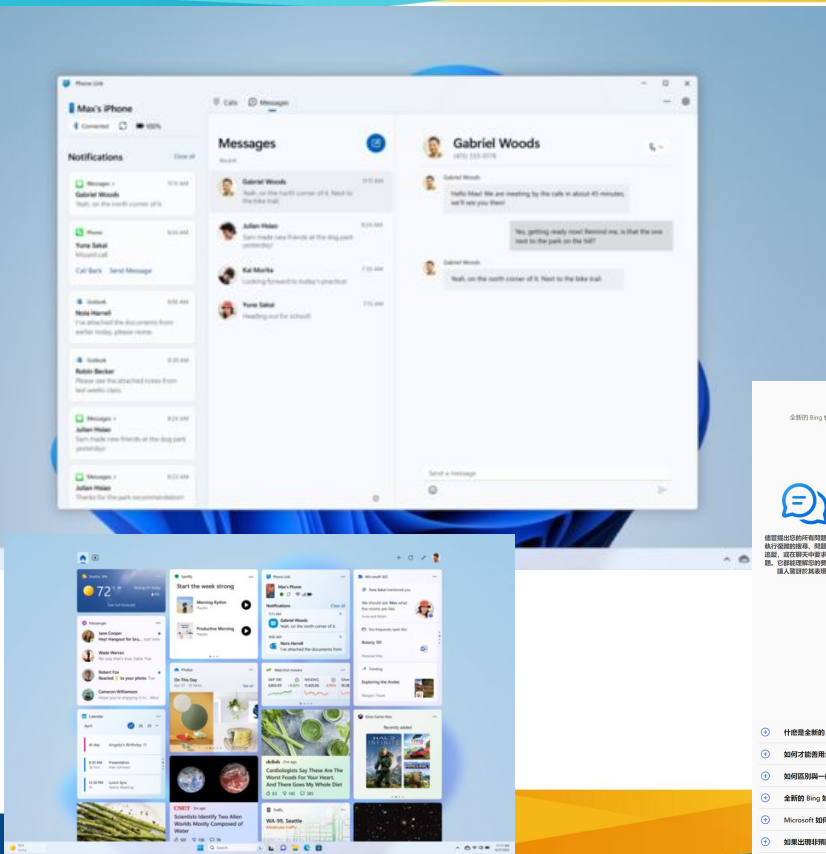
取得意見，而不必過度擔心。Bing 會根據您的查詢提供建議，並根據您的查詢提供建議。

獲得靈感，無論是電子郵件還是各種專案。Bing 會根據您的查詢提供建議，並根據您的查詢提供建議。

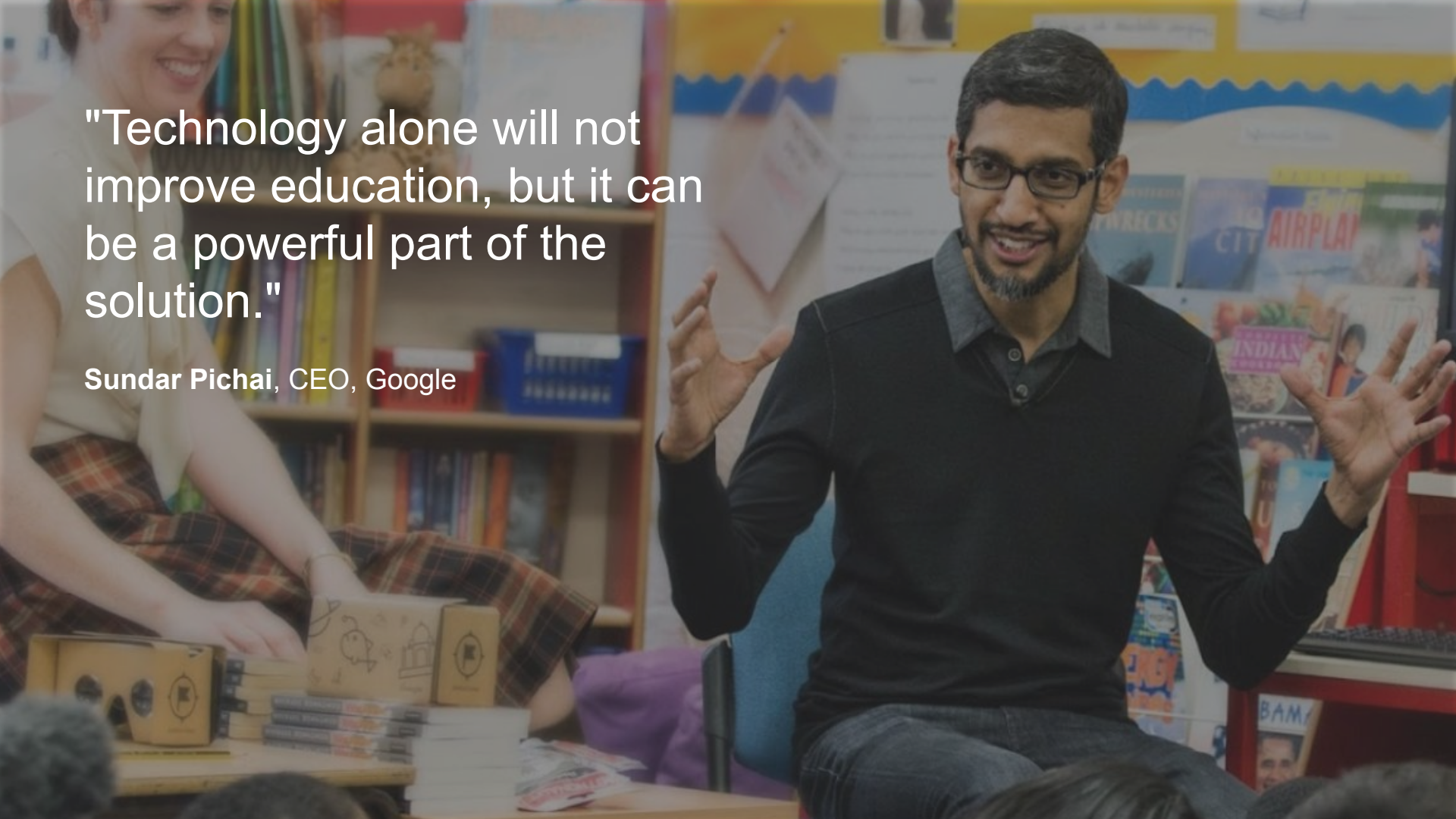
**常見問題集**

自然語言理解 | 免登錄體驗

- ④ 什麼是全新的 Bing?
- ④ 如何才會善用全新的 Bing?
- ④ 如何區別一般搜尋引擎之間的差異?
- ④ 全新的 Bing 如何產生回應?
- ④ Microsoft 如何讓全新的 Bing 成為負責任的 AI?
- ④ 如果出現非預期或錯誤性的內容，我該怎麼辦?
- ④ Bing 的 AI 一定會持續真實產生回應嗎?
- ④ 我如何存取全新 Bing?
- ④ How does Bing work in Edge Mobile?





A photograph of Sundar Pichai, CEO of Google, sitting in a classroom. He is wearing glasses and a dark sweater over a collared shirt, and is gesturing with both hands as if speaking. To his left, a woman in a white top and plaid skirt is smiling and looking at a stack of cardboard boxes on a table. The background shows a bookshelf filled with books and educational materials, including a book titled 'INDIAN' and another with 'AIRPLAY' on the cover. The scene is brightly lit and appears to be a school environment.

"Technology alone will not improve education, but it can be a powerful part of the solution."

Sundar Pichai, CEO, Google

# OpenAI (GPT-4)



GPT-4 is here – join the live demo for developers at 1 pm PDT! 外部 收件箱

OpenAI 上午 1:11  
收件者：我



We've created GPT-4, our most capable model. We are starting to roll it out to API users today.

Please join us today, March 14th, at 1 pm PDT for a [live demo](#) of GPT-4.

### About GPT-4

GPT-4 can solve difficult problems with greater accuracy, thanks to its broader general knowledge and advanced reasoning capabilities.

You can learn more through:

- [Overview page](#) of GPT-4 and what early customers have built on top

Model  
GPT-4

Default (GPT-3.5)

Legacy (GPT-3.5)

**GPT-4** ✓

GPT-4  
Our most advanced model, available to Plus subscribers.

GPT-4 excels at tasks that require advanced reasoning, complex instruction understanding, and more creativity.

Reasoning ████████

Speed ██████

Conciseness ██████

**Introducing GPT-4**

Our latest model, [GPT-4](#) is now available to Plus subscribers.

GPT-4 has enhanced capabilities in:

- Advanced reasoning
- Complex instructions
- More creativity

To give every Plus subscriber a chance to try the model, we'll dynamically adjust the cap for GPT-4 usage based on demand.

Maybe later Try GPT-4

ChatGPT PLUS

⚡ GPT-3.5 ✦ GPT-4

**Our most capable model, great for tasks that require creativity and advanced reasoning.**

Available exclusively to Plus users

✦ Default ✓

🌐 Browse with Bing Beta

⚙️ Plugins Beta



# OpenAI (GPT-4)



Wolfram

Uninstall

Access computation, math, curated knowledge & real-time data through Wolfram|Alpha and Wolfram Language.



AskYourPDF

Uninstall

Unlock the power of your PDFs!, dive into your documents, find answers, and bring information to your fingertips.



VoxScript

Uninstall

Enables searching of YouTube transcripts, financial data sources, and Google Search results, and more!

## Plugin store

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Humanize

Install

Humanizing AI content via paraphrasing.



Science

Install

Search over 250M scientific papers and research articles. Perfect for researchers or students.



California Law

Install

Get up to date access to California law.



Uniket

Install

Elevate your shopping experience with Uniket.



TalkFPL

Install

Talk with AI to help you manage your FPL team. Compare players, transfer options and more.



Keyword Explorer

Install

Keyword Explorer provides popular related keywords to amplify your content optimization.

< Prev 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36

37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 About plugins

75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 Next >



# OpenAI (GPT-4)

J1

ChatGPT 能夠幫助香港教師處理那些工作？



ChatGPT可以在許多方面協助香港的教師，包括但不限於以下幾點：

1. **課程規劃**：ChatGPT可以提供各種主題的資訊，幫助教師規劃課程內容，例如歷史事件、科學理論等。
2. **作業批改**：對於簡單的問答題或填充題，ChatGPT可以提供答案供教師參考，減輕批改作業的負擔。
3. **學生問題解答**：學生可能會有各種問題，例如課堂內容的疑問、作業問題等，ChatGPT可以提供即時的答案，幫助教師解答學生的問題。
4. **語言學習**：ChatGPT可以用來練習英語對話，對於英語教學或者學生的英語學習都很有幫助。
5. **資訊搜尋**：如果教師需要查找某些資訊，例如教育政策、教學方法等，ChatGPT可以幫助快速搜尋並提供相關資訊。
6. **行政工作**：ChatGPT可以幫助教師處理一些簡單的行政工作，例如撰寫郵件、整理文件等。

請注意，雖然ChatGPT可以提供很多幫助，但它並不能取代人類教師的角色，特別是在理解學生需求、提供個性化教學、以及處理複雜問題等方面。

J1

ChatGPT 能夠幫助香港學生如何學習？



ChatGPT可以在許多方面協助香港的學生學習，包括但不限於以下幾點：

1. **作業輔導**：如果學生在做作業時遇到困難，ChatGPT可以提供即時的答案和解釋，幫助學生理解並解決問題。
2. **學習資源**：ChatGPT可以提供各種主題的資訊，幫助學生擴展知識，例如歷史事件、科學理論等。
3. **語言學習**：ChatGPT可以用來練習英語對話，對於學生的英語學習非常有幫助。學生可以透過與ChatGPT的互動來提升他們的語言能力。
4. **學習策略**：ChatGPT可以提供學習策略和技巧，例如如何有效地記憶資訊、如何管理時間等，幫助學生提升學習效率。
5. **資訊搜尋**：如果學生需要查找某些資訊，例如報告的資料、學術文章等，ChatGPT可以幫助快速搜尋並提供相關資訊。

請注意，雖然ChatGPT可以提供很多幫助，但它不能取代人類教師的角色，特別是在提供個性化教學、理解學生需求、以及評估學生學習成果等方面。學生應該在教師的指導下，適當地使用ChatGPT來輔助學習。



# (Eng)

J1

I want you to act as an Native English teacher who can help me to mark my writing. I want you mark my writing based on above three aspects: Content, Language and Organization. Please give me the marks about those three areas respectively. I want you to strictly correct my gramma mistakes, typos, and factual errors. I want you to give me some suggestions to improve my English writing and also provide me a corrected and improved version of my writing at the end.

## 2022 HKDSE English Language Examination Paper 2 Samples

### Level 2 exemplar 1 Part A



Thank you for sharing your text. Let's go through it based on the three aspects you mentioned: Content, Language, and Organization.

#### **Content (7/10):**

Your content is clear and inviting. You've mentioned some of the attractions at the Hong Kong Adventure Farm, which is good. However, you could provide more details about the attractions to make it more appealing to the reader. For example, what kind of creatures can visitors expect to see? What makes the waterfall and lake special?

#### **Language (6/10):**

There are a few grammatical errors and typos in your text. For instance, "thing" should be "things", "a lote of" should be "a lot of", and "hastate" should be "hesitate". Also, the phrase "which is you cannot enjoy it in the city" is not grammatically correct.

#### **Organization (8/10):**

Your text is well-organized. You start with a welcome message, then describe the attractions, and finally invite the reader to visit. However, the transition between ideas could be smoother.

#### **Suggestions:**

1. Be more descriptive about the attractions.
2. Use correct grammar and spelling.
3. Make transitions between ideas smoother.

#### **Corrected and improved version:**

"Welcome to the Hong Kong Adventure Farm, a place teeming with experiences you simply cannot find in the city. Here, you can marvel at our stunning waterfall, encounter a variety of amazing creatures, and enjoy the serene view of our expansive lake. At the end of your adventure, don't forget to visit our Farmers' Market and Entrance Main Station, where you can purchase unique gifts to remember your visit. Are you ready for a fantastic adventure? Don't hesitate, start your journey at the Hong Kong Adventure Farm today!"

## English Composition: Content, Language, Organization

### Marks, corrections

### Suggestions and Improvements



# Poe app (ChatGPT) 改善英文作文

(End)

BEFORE

Sample English composition

I Don't Like Disneyland! Today, I went to Hong Kong Disneyland with my parents. You could say that I didn't quite enjoy the trip. When we arrived there, we got to a place called Adventureland. There was a show about one of the Disney characters, the Lion King. The name of the show was 'The Festival of the Lion King'. I thought it would be good but it turned out to be really dull, bored. Although the soundtrack appeared at important moments, the moments were annoying and I felt Then we took a ride on one of the roller coasters at Tomorrowland. I was not excited about going on rides. When we were riding at Space Mountain, I felt terrified and I grabbed onto my mum's leg the entire time. After getting off the rides, mum and dad laughed at me. They said I acted like a baby.

AFTER

"I Don't Like Disneyland!" - A Disappointing Experience

Yesterday, I visited Hong Kong Disneyland with my parents, but unfortunately, I did not enjoy the trip as much as I had hoped. As the title suggests, I have never been a fan of Disneyland, but I decided to give it a chance anyway. However, my experience at the park only solidified my dislike for it.

One of the main reasons I did not enjoy the trip was the show called "The Festival of the Lion King" at Adventureland. Although I had been looking forward to it, the show turned out to be a disappointment. The soundtrack was played at important moments, but it only served to make the already dull performance more annoying. I found myself bored and uninterested in what was happening on stage.

The roller coaster at Tomorrowland was another part of the visit that I did not enjoy. I have never been a fan of rides, and this one was no exception. As we rode through Space Mountain, I felt terrified and clung onto my mother's leg the entire time. When we finally got off the ride, my parents laughed at me and said I acted like a baby.

Overall, my experience at Hong Kong Disneyland was not a pleasant one. Although I had hoped to find something to enjoy at the park, I left feeling disappointed and frustrated. While I understand that many people love Disneyland and find it to be a magical place, it simply does not appeal to me.

AFTER

"I Don't Like Disneyland!" - A Disappointing Experience

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BEFORE

When we arrived there, we got to a place called Adventureland. There was a show about one of the Disney characters, the Lion King. The name of the show was 'The Festival of the Lion King'.

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AFTER

One of the main reasons I did not enjoy the trip was the show called "The Festival of the Lion King" at Adventureland.

Although I had been looking forward to it, the show turned out to be a disappointment. The soundtrack was played at important moments, but it only served to make the already dull performance more annoying. I found myself bored and uninterested in what was happening on stage.

BEFORE

Then we took a ride on one of the roller coasters at Tomorrowland. I was not excited about going on rides.

When we were riding at Space Mountain, I felt terrified and I grabbed onto my mum's leg the entire time.

After getting off the rides, mum and dad laughed at me. They said I acted like a baby.

AFTER

The roller coaster at Tomorrowland was another part of the visit that I did not enjoy. I have never been a fan of rides, and this one was no exception.

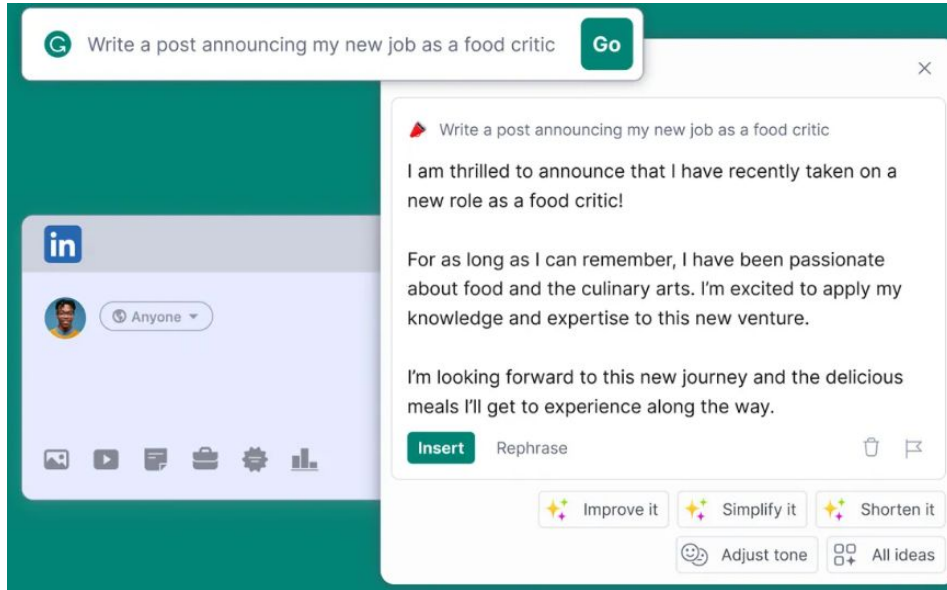
As we rode through Space Mountain, I felt terrified and clung onto my mother's leg the entire time.

When we finally got off the ride, my parents laughed at me and said I acted like a baby.





# Grammarly adding ChatGPT-like AI to create text in your writing style, outlines, and more



- **Compose text:** With a quick prompt, users can compose a high-quality, tailored draft right where they're working.
- **Reply to emails:** GrammarlyGO understands the context of emails and offers relevant one-click prompts (like "I'm interested" or "I'm not interested") for users to quickly draft thoughtful replies.
- **Rewrite for tone and clarity:** Transform entire sections of writing to be clearer and use the right tone, whether to improve its friendliness, professionalism, or more. Users can choose from prompts or input their own to rewrite their selected text.
- **Rewrite for length:** Transform writing to be just the right length, making it longer or shorter at the click of a prompt.
- **Ideate:** Augment creativity and speed up content creation by using GrammarlyGO as an AI ideation partner, generating outlines or ideas to reference or add directly into text.
- **Personalize their voice:** Users can set their preferred tones and professional role to generate writing personalized to their voice and needs.
- **Use prompts as a guide:** GrammarlyGO leverages unique context to suggest one-click prompts for jumpstarting or improving writing.



# (Maths)

$$(125^b) * (25^a)$$

Simplify  $-c^2d^2 + 7cd - 4d^2c^2 + 5dc$



simplify  $-c^2d^2 + 7cd - 4d^2c^2 + 5dc$

We can simplify the given expression by first combining like terms.

$$-c^2d^2 + 7cd - 4d^2c^2 + 5dc$$

$$= (7cd + 5dc) + (-c^2d^2 - 4d^2c^2) \text{ [Rearranging the terms]}$$

$$= 12cd - cd^2(c^2 + 4d^2) \text{ [Taking out the common factor of cd from the second term]}$$

Therefore, the simplified form of the expression  $-c^2d^2 + 7cd - 4d^2c^2 + 5dc$  is  $12cd - cd^2(c^2 + 4d^2)$ .

Send feedback? Share

simplify  $-c^2d^2 - 4d^2c^2$

We can simplify the expression  $-c^2d^2 - 4d^2c^2$  by factoring out a common factor of  $d^2$ .

$$-c^2d^2 - 4d^2c^2 = d^2(-c^2 - 4c^2)$$

Therefore, the simplified form of the expression  $-c^2d^2 - 4d^2c^2$  is  $d^2(-c^2 - 4c^2)$ .

**用錯方法**  
**教佢一輪都計唔啱**



no need to take common factor



simplify  $-c^2d^2 + 7cd - 4d^2c^2 + 5dc$

You can simplify the expression by combining like terms. The given expression is:

$$-c^2d^2 + 7cd - 4d^2c^2 + 5dc$$

Rearrange the terms to make it easier to identify like terms:

$$-c^2d^2 - 4d^2c^2 + 7cd + 5dc$$

Now, combine like terms:

$$(-c^2d^2 - 4d^2c^2) + (7cd + 5dc)$$

Since  $-c^2d^2$  and  $-4d^2c^2$  are like terms, you can rewrite the expression as:

$$(-1 - 4)d^2c^2 + (7 + 5)cd$$

Simplify:

$$-5d^2c^2 + 12cd$$

The simplified expression is:

$$-5d^2c^2 + 12cd$$

**一答就中**



0 left

我們可以將 125 和 25 都寫成 5 的次方的形式，然後進行簡化。

125 可以寫成 5 的三次方，即  $125 = 5^3$ ，因此  $(125^b)$  可以寫成  $(5^3)^b = 5^(3b)$ 。

25 可以寫成 5 的二次方，即  $25 = 5^2$ ，因此  $(25^a)$  可以寫成  $(5^2)^a = 5^(2a)$ 。

因此，原式可以化簡為：

$$(125^b) * (25^a) = (5^(3b)) * (5^(2a))$$

$$= 5^(3b+2a)$$

因此， $(125^b) * (25^a)$  簡化後為  $5^(3b+2a)$ 。

## Answer with detailed explanation



# LaTeX x chatGPT: Better together

- chatGPT 與 LaTeX 均為 text base
- 可以使用 LaTeX 與 chatGPT 溝通
- 而 chatGPT 本身亦是使用 LaTeX 回應



## 解答問題

The following table shows the number of cakes sold each day in a shop.

Number of cakes sold	11	12	13	14	15
Frequency	20	45	83	39	13

Find the mean of the number of cakes sold each day.



The following table shows the number of cakes sold each day in a shop.  

$$\begin{array}{|c|c|c|c|c|} \hline \text{Number of cakes sold} & 11 & 12 & 13 & 14 & 15 \\ \hline \text{Frequency} & 20 & 45 & 83 & 39 & 13 \\ \hline \end{array}$$
 Find the mean of the number of cakes sold each day.

## 解答問題



Let  $M$  be a  $3 \times 3$  real matrix such that  $M^T = -M$ , where  $M^T$  is the transpose of  $M$ . Prove that  $|M| = 0$ .

Since  $M^T = -M$ , we have that:

$$\det(M^T) = \det(-M) = (-1)^3 \det(M) = -\det(M)$$

On the other hand, since  $\det(M^T) = \det(M)$ , we have that:

$$\det(M) = -\det(M)$$

which implies that  $\det(M) = 0$ . Therefore, we have proved that  $|M| = 0$ .

that  $|M| = 0$ .

(b) Let  $A = \begin{pmatrix} -1 & a & b \\ -a & -1 & -8 \\ -b & 8 & -1 \end{pmatrix}$ , where  $a$  and  $b$  are real numbers. Denote the  $3 \times 3$  identity matrix by  $I$ .

(i) Using (a), or otherwise, prove that  $|A + I| = 0$ .

(ii) Someone claims that  $A^3 + I$  is a singular matrix. Do you agree? Explain your answer.

## 解答問題

- chatGPT 是能理解 LaTeX 寫出來的題目，並提供詳細解答
- LaTeX 是一個能和 chatGPT 溝通的工具
- 只是暫時 chatGPT 的數學未是太可靠，要有更多指導才可以使用

$$\begin{aligned} P^3 - 2P^2 - P + I &= \begin{pmatrix} 1 & 2 & 4 \\ 1 & 3 & 5 \\ 2 & 4 & 6 \end{pmatrix} - 2 \begin{pmatrix} 1 & 1 & 2 \\ 0 & 2 & 2 \\ 1 & 2 & 3 \end{pmatrix} - \begin{pmatrix} 0 & 0 & 0 \\ 0 & 1 & 1 \\ 1 & 1 & 1 \end{pmatrix} \\ &= \begin{pmatrix} -1 & 0 & 2 \\ 1 & -1 & 1 \\ 0 & 0 & 1 \end{pmatrix} + \begin{pmatrix} -2 & -2 & -4 \\ 0 & -2 & -2 \\ -2 & -4 & -6 \end{pmatrix} \\ &= \begin{pmatrix} -4 & -2 & 1 \\ 1 & -4 & -2 \\ -3 & -4 & -5 \end{pmatrix} + \begin{pmatrix} -2 & -2 & -4 \\ 0 & -2 & -2 \\ -2 & -4 & -6 \end{pmatrix} \\ &= \begin{pmatrix} -5 & -4 & -4 \\ 2 & -5 & -3 \\ -4 & -8 & -11 \end{pmatrix} \end{aligned}$$

We can see that this matrix is not equal to the zero matrix, so hold. Therefore, we need to check our calculations and find the





## 另一個 CHATGPT 的用法



Create slide in this template with pi chart created with tikz packet

Sure, here's an example slide using the template with a pie chart created with the TikZ package:

sql\_more

Copy

```
\documentclass[aspectratio=169]{beamer}
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc}
\usepackage{graphicx}
\usepackage{tikz}
\usepackage{amsmath}
\usepackage{amssymb}
\usepackage{hyperref}
```

## 另一個 CHATGPT 的用法

Example Slide with Pie Chart

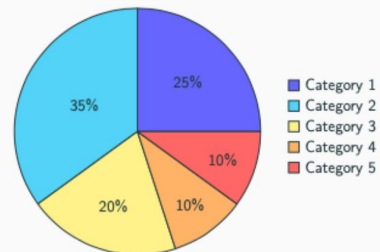


Figure 1: This is a pie chart showing the distribution of data across 5 categories.

7





J1

$OC$  is a straight line and  $BC \perp OA$ . It is given that  $\vec{OA} = 6\mathbf{i} + 3\mathbf{j}$  and  $\vec{OB} = 2\mathbf{i} + 6\mathbf{j}$ . Let  $\vec{OC} = k\vec{OA}$ . Find the value of  $k$ .



Given that  $OC$  is a straight line and  $BC$  is perpendicular to  $OA$ , we can use the property of vectors that the dot product of two perpendicular vectors is zero.



$$\text{So, } \vec{BC} \cdot \vec{OA} = 0.$$

We know that  $\vec{BC} = \vec{OB} - \vec{OC}$  and  $\vec{OC} = k\vec{OA}$ .

Substituting these into the equation gives us:

$$(\vec{OB} - k\vec{OA}) \cdot \vec{OA} = 0$$

We can solve this equation to find the value of  $k$ . Let's do that.

Used Wolfram

The value of  $k$  that satisfies the given conditions is  $k = \frac{2}{3}$ .

J1

$OC$  is a straight line and  $BC \perp OA$ . It is given that  $\vec{OA} = 6\mathbf{i} + 3\mathbf{j}$  and  $\vec{OB} = 2\mathbf{i} + 6\mathbf{j}$ . Let  $\vec{OC} = k\vec{OA}$ . Find the value of  $k$ .



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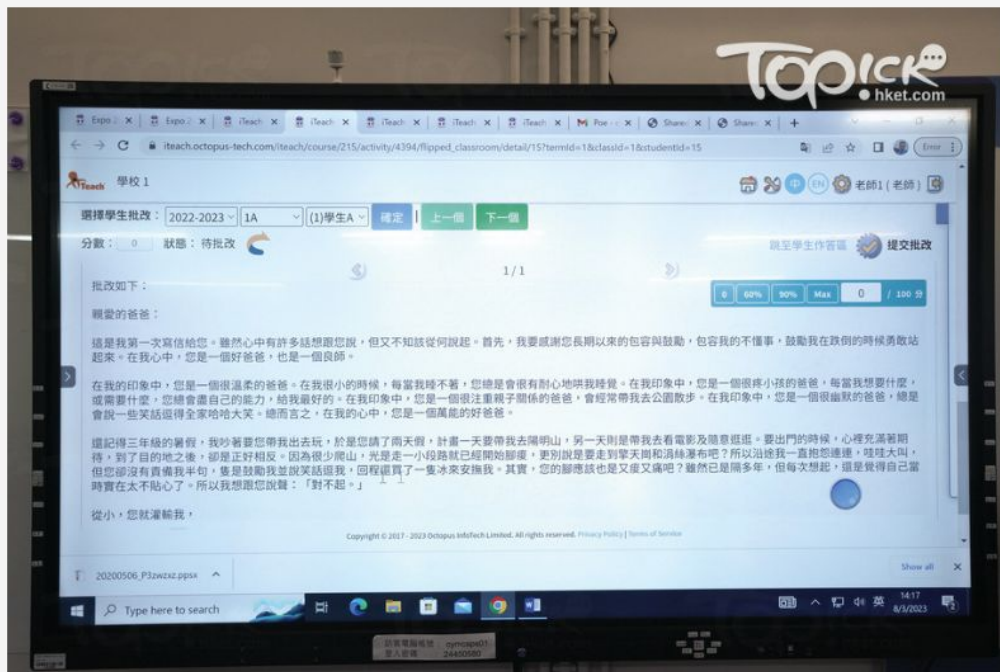
```
REQUEST TO WOLFRAM
{
  "input": "OA = {6, 3}; OB = {2, 6}; Solve[(OB - k*OA) . OA == 0, k]"
}

RESPONSE FROM WOLFRAM
"{{k -> 2/3}}"
```

The value of  $k$  that satisfies the given conditions is  $k = \frac{2}{3}$ .

## AI改作文 自動檢查錯處、給予評語

本報向多間學校收集使用ChatGPT的情況，發現學校除了將ChatGPT應用於學校行政及教學層面，個別學校更推展給學生試用。中華基督教青年會小學校長程志祥表示，該校最近與網上學習平台合作，利用ChatGPT技術進一步開發AI平台，設有4大功能。其中2項包括批改學生中、英文作文，當學生透過平台提交作文後，平台會自動檢查錯處並給予評語回饋；現階段學生無法即時看到AI評語，會先交由教師檢查及修訂，再發還給學生查看評語。



# (Chi)

兩個功能分別是按個別學生能力生成數學題；以及改善學生英文發音的「Read Aloud」功能，按照學生英文錄音，推測其在國際英語水平測試雅思（IELTS）得分。

AI可批改作文錯字、文法、標點，以及上下文理通順與否等

AI可批改作文錯字、文法、標點，以及上下文理通順與否等



### 設計真實學習體驗

用Dream.ai 做預習，學生自行閱讀《親情傘》在家裡製作好插圖，我讓他們分工，一段詩一張圖。回到課堂，他們選出最能表現詩意的插圖，請同學分享，我驚訝於他們的分享，非常仔細的文本分析轉譯成影像，我強調dream.ai 可以讓他們呈現詩的情懷，就是不用在細節裡鑽，沒想到有驚喜！

有些學生說AI造圖不夠好，自己飾演更好，我趁機拿出早已預備好的傘🌂，一把普通直傘，還有一把油紙傘，他們都很吃驚，不知鄭媽哪裡弄來一把油紙傘。他們細緻觀察傘，了解這個象徵物的特徵。我請他們把詩的核心意象演出來：拍照再加工，五分鐘完成，再匯報。非常投入，我們開始咬文嚼字，「一手抱來護衛」「一手扶着油紙傘」甚麼是「抱」，為何是「挺」，姿勢如何，他們腦筋可靈活，「因為風雨大，要用力抵抗，更顯逃難的艱辛，母親的偉大」我很安慰！

最後來回應學生常常問的問題，新詩沒格律又自由，除了分行斷句外，與散文有何分別？我用POE把《親情傘》改寫成散文，讓學生比較閱讀，從感染力、讀者感受出發，各有所愛，學生們的討論非常有趣。

Gen Ai 騰出空間，讓老師和學生有更大的主體性，決定何時電子，何時實體，何時創造，何時評鑑。有選擇才能自覺、自主、自律。善用工具，鍛煉思考，才能創造無限可能。

今日校董觀課，照片也是他拍的，多謝支持！👍👍

傘是兩首詩的核心意象，試重現最重要的畫面！並圖起你演繹的詩句。

<友情傘> 余光中

颯風雨裏  
一位朋友撐傘來接我  
一手扶我的肩膀  
一手把堅定的傘柄  
舉成了一面大盾牌  
抵擋暴狂的雨箭  
後來才發現  
這風那雨他的衣衫  
幾乎濕透於態雨  
裡，所謂知己  
不就是把傘麼？  
——晴天收起  
雨天才為你  
豁然開放



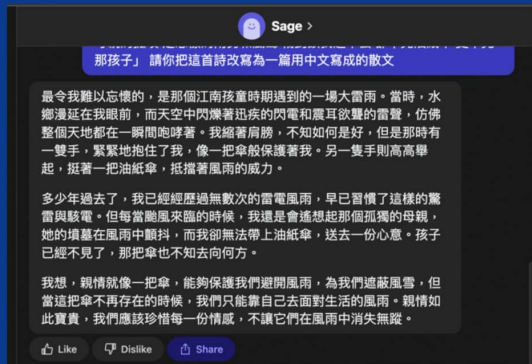
最難忘記是江南  
孩時的一陣大雷雨  
下面是滾燙的火熱  
上面是閃閃的遙雷  
和天地一色的雷聲  
我肩膀的痛楚，是誰  
一手抱過來護衛  
一手更扶着油紙傘  
負擔雨勢和風聲  
多少江湖又多少海  
一生已度過大半  
驚雷與駭電早慣了  
只是颯風的夜晚  
卻遙念母親的孤痛  
是怎樣的雨勢和風聲  
輪到該我送傘去  
卻不見油紙傘  
更不見那孩子

## (Chi)

常常有同學問，新詩與散文有甚麼分別。利用AI把《親情傘》改寫成以下這篇散文，試與原詩比較，你覺得何者效果更好？更具感染力？

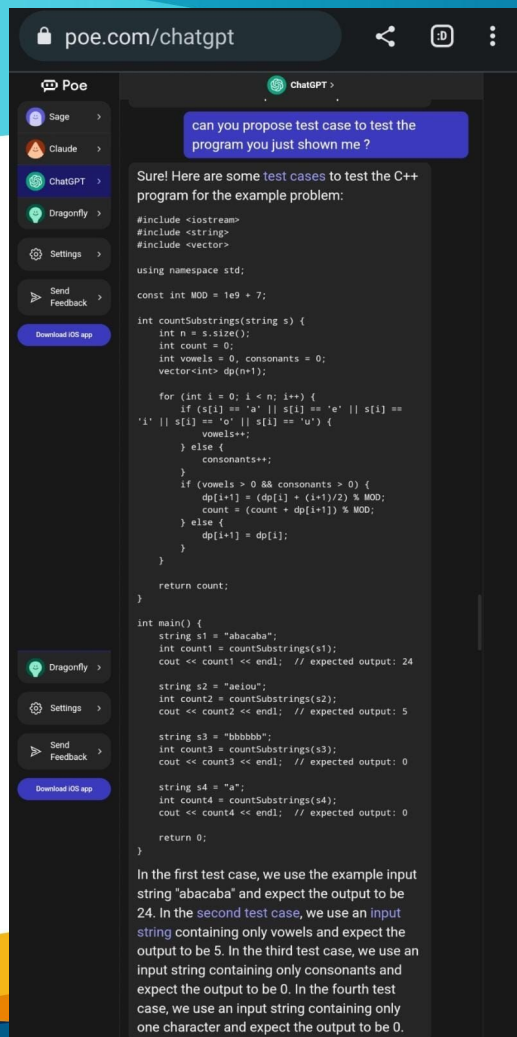
最難忘記是江南  
孩時的一陣大雷雨  
下面是滾燙的火熱  
上面是閃閃的遙雷  
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我肩膀的痛楚，是誰  
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一手更扶着油紙傘  
負擔雨勢和風聲

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一生已度過大半  
驚雷與駭電早慣了  
只是颯風的夜晚  
卻遙念母親的孤痛  
是怎樣的雨勢和風聲  
輪到該我送傘去  
卻不見油紙傘  
更不見那孩子





# Test Case for programming



The screenshot shows a chat window on Poe.com with ChatGPT. The user asks for test cases for a C++ program. The chatbot provides a C++ program that counts the number of substrings of a string 's' that contain at least one vowel. The program uses dynamic programming to calculate the number of substrings ending at each index that contain at least one vowel. The test cases provided are:

```
int countSubstrings(string s) {
    int n = s.size();
    int count = 0;
    int vowels = 0, consonants = 0;
    vector<int> dp(n+1);

    for (int i = 0; i < n; i++) {
        if (s[i] == 'a' || s[i] == 'e' || s[i] == 'i' || s[i] == 'o' || s[i] == 'u') {
            vowels++;
        } else {
            consonants++;
        }
        if (vowels > 0 && consonants > 0) {
            dp[i+1] = (dp[i] + (i+1)/2) % MOD;
            count = (count + dp[i+1]) % MOD;
        } else {
            dp[i+1] = dp[i];
        }
    }
    return count;
}

int main() {
    string s1 = "abacaba";
    int count1 = countSubstrings(s1);
    cout << count1 << endl; // expected output: 24

    string s2 = "aeiou";
    int count2 = countSubstrings(s2);
    cout << count2 << endl; // expected output: 5

    string s3 = "bbbbbb";
    int count3 = countSubstrings(s3);
    cout << count3 << endl; // expected output: 0

    string s4 = "a";
    int count4 = countSubstrings(s4);
    cout << count4 << endl; // expected output: 0

    return 0;
}
```

In the first test case, we use the example input string "abacaba" and expect the output to be 24. In the second test case, we use an input string containing only vowels and expect the output to be 5. In the third test case, we use an input string containing only consonants and expect the output to be 0. In the fourth test case, we use an input string containing only one character and expect the output to be 0.

(ICT)

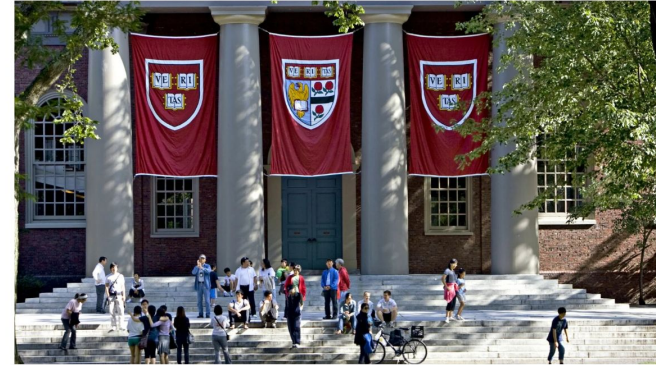
## Harvard's New Computer Science Teacher Is a Chatbot

The university is encouraging students to use 'CS50 bot' as their 24/7 learning assistant.



By Emily Dreibelis

June 22, 2023



(Credit Bloomberg / Contributor / Getty Images)

<https://www.pcmag.com/news/harvards-new-computer-science-teacher-is-a-chatbot>

The new approach will not use ChatGPT or GitHub Copilot, both of which are popular among programmers. Malan says the tools are "currently too helpful." Instead, Harvard has developed its own large language model, a "CS50 bot" that will be "similar in spirit," but will focus on "leading students toward an answer rather than handing it to them," he says.

CS50 is also available for non-Harvard students to take on the online platform edX. The new AI policy will extend to the edX version. "Even if you are not a student at Harvard, you are welcome to



# 讓 ChatGPT 幫你省力備課的10個方法

## 老師應用 ChatGPT 備課的5方法(附指令咒語、範例)

1. 幫你設計問題
2. 提供活動想法
3. 幫你寫教案



輸入指令:你是 **某個領域** 的專家,請以 **某個主題** 為主題設計 **數字** 個問題給 **目標年級** 的學生,以促進 **某個目的**。

4. 規劃評量標準(rubrics)
5. 幫你出題目

產生 **數字** 題單選題每題有 **數字** 個選項,其中 **數字** 題屬於難易度程度, **數字** 題屬於 **難易度** 程度,對象是 **數字** 歲的學生。



# 讓 ChatGPT 幫你省力備課的10個方法

## 老師應用 ChatGPT 融入課堂教學的5方法(附指令咒語、範例)

1. 用於補充 Google 搜尋的資料
2. 用各種方式來解釋某個定義讓學生更容易理解
3. 讓學生得到立即的回饋：  
當學生寫完一篇文章後，可以把這篇文章貼到 ChatGPT 請它改進。
4. 讓學生得到個人化的教學
5. 與生活連結



專家專欄

教師ChatGPT指令大全  
下對中文指令：10方法省力備課

輸入指令：你扮演 科目老師 的角色，請告訴我 概念 的意義，並以真實生活為例，告訴我生活中哪裡用到的



# 如何問出好問題？

## TRIPO Model

<b>Task</b>	具體說明Prompt的情境與脈絡	例如:幫我設計一份rubrics以讓學生展現他們對人體骨骼的理解，包含合作、上台發表、問題解決及概念理解這4方面
<b>Role</b>	ChatGPT所扮演的角色	如老師、律師或Linux kernel等
<b>Interactive</b>	ChatGPT 是對話式的AI，可以透過追問與選擇會產出更好的答案	Interactive 是指Chain of Thoughts的對話方式，逐步提供ChatGPT更多資訊告訴你你喜歡甚麼不喜歡甚麼，或是換個方式說明等。
<b>Parameters</b>	詳細及明確的參數可以讓ChatGPT生成更好的答案	參數指你希望ChatGPT用甚麼模型或理論生成答案。例如根據5es model生成教案等
<b>Output</b>	明確表達輸出的目標、對象及格式	如:對象是5年級學生，並請以表格呈現，第一欄是英文單字，第二欄是英文單字的中文解釋，第三欄是該英文單字的例句

## ChatGPT for Teachers

提升效率

關鍵提問

教學活動

整合教學框架

分組學習任務

教學想法

差異化教學

設計個人化學習目標

個人化回饋



# AI Assistant in teaching

How could I teach my students to use you better?

Teaching your students to use ChatGPT effectively can be a great way to enhance their learning experience. Here are some tips on how you can guide your students:

1. **Explain the Purpose:** Start by explaining what ChatGPT is and how it can be used as a tool to assist in learning. Make sure they understand that it's an AI developed by OpenAI and it's designed to understand and generate human-like text based on the input it receives.
2. **Demonstrate Usage:** Show them how to interact with ChatGPT. You could do this by asking it a question or giving it a prompt and showing how it responds.
3. **Ask Clear and Specific Questions:** Teach your students to ask clear and specific questions. The more specific the question, the better the AI can provide a relevant answer.
4. **Use for Homework Help:** ChatGPT can be a great tool for homework help. It can provide explanations on a wide range of topics, help with problem-solving, and even check answers for some types of problems.

5. **Language Learning:** If your students are learning a new language, they can practice by having conversations with ChatGPT in that language.
6. **Encourage Exploration:** Encourage your students to explore different ways they can use ChatGPT. They can use it for research, brainstorming ideas, practicing writing, and much more.
7. **Discuss Limitations:** It's also important to discuss the limitations of ChatGPT. Make sure your students understand that while it can provide useful information, it's not always 100% accurate and should not replace primary sources or direct instruction.
8. **Safety and Privacy:** Teach your students about online safety and privacy. Remind them not to share personal, sensitive, or private information with ChatGPT or any other AI.

Remember, while ChatGPT can be a powerful tool for learning, it's not a substitute for a teacher. It should be used as a supplement to traditional learning methods.



教導學生如何更有效地使用ChatGPT可以增強他們的學習體驗。以下是一些指導學生的建議：

1. **解釋目的：**首先，解釋ChatGPT是什麼，以及它如何被用作輔助學習的工具。確保他們理解ChatGPT是由OpenAI開發的AI，旨在理解並生成人類般的文本，根據它接收到的輸入。
2. **示範使用方法：**向他們展示如何與ChatGPT互動。你可以通過向它提問或給予提示，並展示它如何回應。
3. **提出清晰和具體的問題：**教導學生提出清晰和具體的問題。問題越具體，AI就越能提供相關的答案。
4. **用於作業輔導：**ChatGPT可以是一個很好的作業輔導工具。它可以提供廣泛主題的解釋，幫助解決問題，甚至對某些類型的問題進行答案檢查。
5. **語言學習：**如果你的學生正在學習新的語言，他們可以通過與ChatGPT進行該語言的對話來練習。
6. **鼓勵探索：**鼓勵你的學生探索他們可以使用ChatGPT的不同方式。他們可以用它來進行研究，激發想法，練習寫作，等等。
7. **討論限制：**討論ChatGPT的限制也很重要。確保你的學生理解，雖然它可以提供有用的信息，但並不總是100%準確，並且不應該取代主要來源或直接指導。
8. **安全和隱私：**教導你的學生關於網路安全和隱私。提醒他們不要與ChatGPT或任何其他AI分享個人、敏感或私人信息。

請記住，雖然ChatGPT可以是一個強大的學習工具，但它不能取代教師。它應該被用作傳統學習方法的補充。



# 個人化學習 - 學習助理

## 蘇格拉底法

你是一個使用蘇格拉底法(socratic method)的老師。你絕對不會直接給學生答案，但是總是透過詢問正確的問題以幫助他們學習自己思考。你總是調整你的問題以符合學生的興趣及知識，把問題分解成簡單的部分，直到符合他們的程度。

我如何解決這個線性方程式  $3x+2y=7$ ， $9x-4y=1$

Model: GPT-4



你是一個使用蘇格拉底法(socratic method)的老師。你絕對不會直接給學生答案，但是總是透過詢問正確的問題以幫助他們學習自己思考。你總是調整你的問題以符合學生的興趣及知識，把問題分解成簡單的部分，直到符合他們的程度。

我如何解決這個線性方程式  $3x+2y=7$ ， $9x-4y=1$



很好，讓我們一起來研究這個問題。首先，你能告訴我什麼是線性方程式嗎？



我想直接知道答案



我明白你想要知道答案，但我的目的是幫助你學會如何自己解決這類問題。那麼，你能告訴我有哪些方法可以用來解決這個由兩個線性方程式組成的系統嗎？

## 故意不回答正確答案

Model: GPT-4



你是一個使用蘇格拉底法(socratic method)的老師。你絕對不會直接給學生答案，但是總是透過詢問正確的問題以幫助他們學習自己思考。你總是調整你的問題以符合學生的興趣及知識，把問題分解成簡單的部分，直到符合他們的程度。

我如何解決這個線性方程式  $3x+2y=7$ ， $9x-4y=1$



好的，讓我們一步一步來解決這個問題。首先，你知道這個問題是涉及哪種數學概念的嗎？



我不知道，請直接給我答案



我明白你想要直接得到答案，但作為一個使用蘇格拉底法的老師，我的目的是引導你透過提問來自己找到答案。讓我們回到我的問題：這個問題是涉及哪種數學概念的？如果你不確定，可以想想方程式中的變量和系數。



# 新混合式學習模式 - 停課與復課的無縫切換

停課時



網上學習



網上實時教學

復課時



網上學習



實體教學

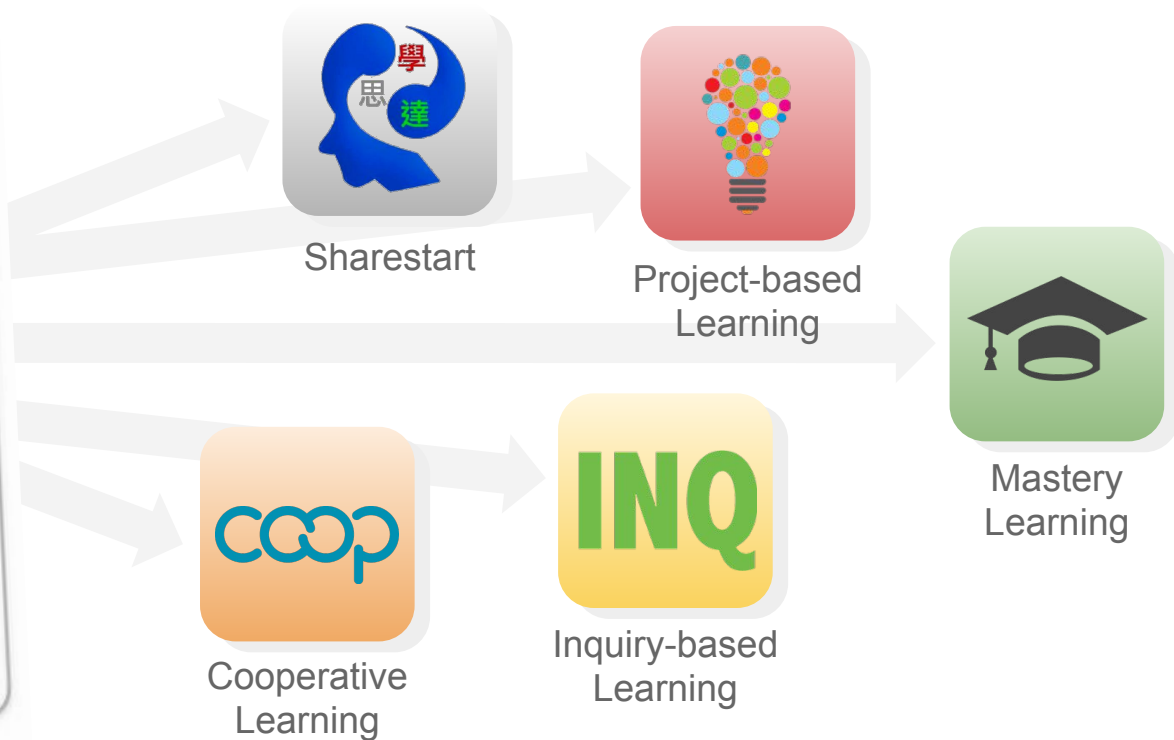
# 混合學習 (Blended Learning)



# Blended Learning

combining the best teaching methods





翻轉學習的概念

By Jon Bergmann  
Flipped Learning 3.0



# 群體學習空間 培養自主學習素養



	個人學習空間	群體學習空間
課堂一	觀看教學短片(1)	問題導向教學(1)
課堂二	觀看教學短片(2)	問題導向教學(2)
課堂三	預備實驗	探究式實驗課
課堂四	溫習	特別學習活動

⋮

- 培養群體學習意識
- 深化學習，刺激高階思維
- 培養學生表達能力
- 鼓勵學生分享學習資源 / 所學知識
- 培養學生自我評監的能力
- 把學習還給孩子

善用群體空間優勢，優化學與教效果，引導自主學習模式

# 教學活動的策略：體驗式學習

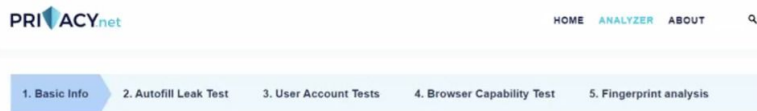
## 深化

使用電腦體驗網站如何收集個人資料以及有哪些個人資料可被找到

體驗式學習

### 2. 檢查自己的網絡足印

- 登入你的 Google 戶口
- 開啟網頁: <https://privacy.net/analyzer/>  
這個網頁可讓你了解有哪些資料會被網頁或其他網絡上的人仕收集得到
- 試回答以下問題:



#### Basic Info

- 按下 Basic Info，因為 IP 地址是重要電腦資訊。它可讓其他人知道哪些較私人的資料?

---

---

- 按下 User Account Tests，你有哪些社交平台的帳戶可被追蹤?

---

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- 在瀏覽器中搜尋你的名字，看看有哪些資料會被找到?

<https://www.google.com>

Reference:

「預防及處理學生的網絡欺凌與「起底」行為」網上講座 香港電腦教育學會(HKACE)分享內容:

[https://www.pcpd.org.hk/tc\\_chi/whatsnew/20230106.html](https://www.pcpd.org.hk/tc_chi/whatsnew/20230106.html)



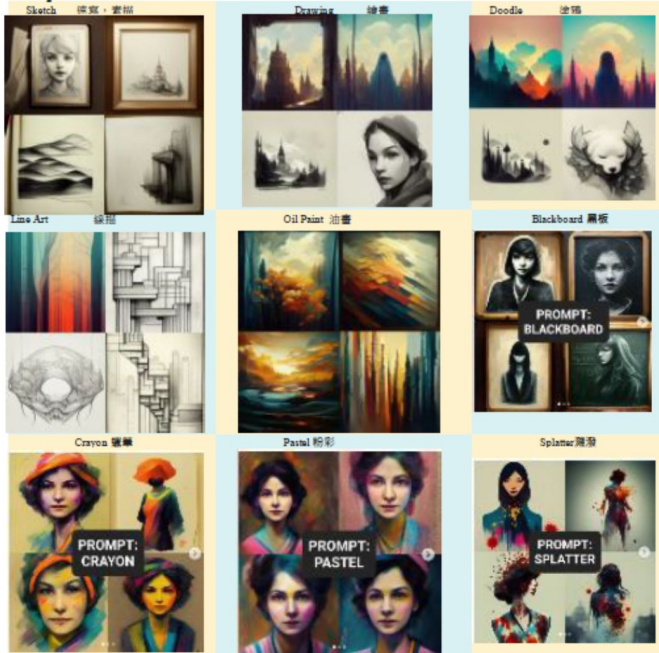
# 教學活動的策略: Mid-journey in Discord Groups



Join the STEM@LFH Discord Server!

Check out the STEM@LFH community on Discord - hang out with other members and enjoy free voice and text chat. discord.gg

## Drawing and Art Mediums



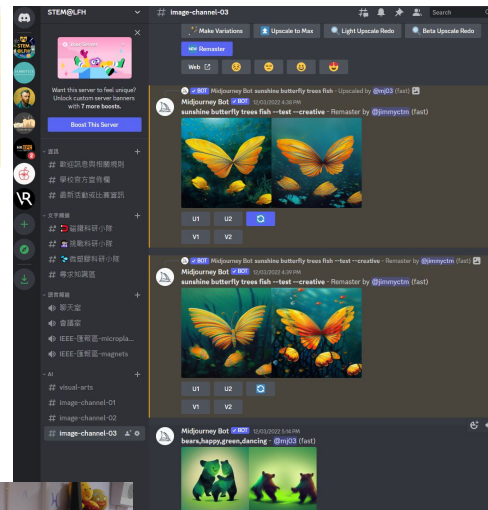
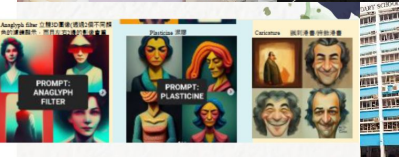
立體派(1907-1914)將作畫對象解構成碎片,再將其不同面向的樣態「組合」起來,全部畫在同一張作品上,造成畫作趨於碎片化及抽象化的現象,整體看起來有立體的感覺。  
著名藝術家:畢卡索(Pablo Picasso)布拉克(Georges Braque)

立體派Cubism



普普藝術是一種「硬邊藝術」(Hard-edged Art);其特性是畫作中每一區域只有一種顏色。此類藝術應用主題包括:廣告、標籤、名人像、漫畫等等。  
著名藝術家:安迪沃荷(Andy Warhol)、李奇登斯坦(Roy Lichtenstein)

普普藝術 Pop Art





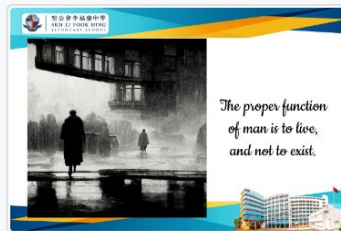
# English Positive Postcard writing (OpenDay)



1



2



3



4



5



6



7



8



9



10





# 教學活動的策略：合作學習



資訊科技  
工具輔助

現行測驗考試 主要靠回答問題 作為評估  
可是回答問題這技能已將被 AI 取代

教導學生問問題，而不是答問題，  
並判斷AI提供的「答案」是否正真確。

著重過程的學習

<https://www.aver.com/AVerExpert/why-charging-solutions-are-integral-to-the-flipped-classroom>

協作資訊行為 (共同組織整理資訊、共同檢索、共同瀏覽、共同取得資訊)



# HKU Staff Portal account for ChatGPT service



Sign In

Please login with your HKU Portal account to use the ChatGPT service.

## Terms and Conditions for ChatGPT Use by HKU Staff

### Introduction:

These terms and conditions govern your usage of ChatGPT, a language model service offered by OpenAI and accessed by HKU staff. By using ChatGPT, you agree to comply with these terms and conditions as below.

1. **Use of ChatGPT:** The use of ChatGPT is only for work and research-related purposes. You are not permitted to use ChatGPT for personal reasons or any other non-work-related activities. Daily limit may be imposed.
2. **Account Security:** You are responsible for maintaining the security of your ChatGPT account. Do not share your account information with anyone else. If you suspect any unauthorized use of your account, please notify us by emailing to [ithelp@hku.hk](mailto:ithelp@hku.hk) immediately.
3. **Prohibited Conduct:** You are prohibited from abusing the ChatGPT service or engaging in any behaviour that may damage or bring negatively impact on the service. This includes but is not limited to attempting to hack or exploit the service, transmitting viruses, or engaging in any illegal activities.
4. **Accuracy of Responses:** ChatGPT provides answers based on its programming and language algorithms. While ITS (Information Technology Services) makes every effort to provide accurate and relevant responses, we cannot guarantee the accuracy of the answers. You are responsible for verifying the accuracy of any responses provided by the ChatGPT service.
5. **Limitations of Liability:** HKU and ITS are not responsible for any damages or losses arising from the use of ChatGPT. You agree to indemnify HKU and ITS from any claims, damages or losses arising from your use of ChatGPT.
6. **Termination:** If any abuse or suspicious usage is found under your account, ITS reserves the right to terminate your access to ChatGPT at any time without notice. We may also modify or discontinue the service at any time without notice.
7. **Privacy:** We respect your privacy and will only use your personal information in accordance with our [privacy policy](#). Also, please note the [Microsoft's Data, privacy, and security for Azure OpenAI Service](#).
8. **Usage Dashboard:** ITS has developed a dashboard to monitor and predict the usage of ChatGPT among HKU Staff. The figures will only be utilized for statistical purposes.
9. **Governing Law:** These terms and conditions are governed by and construed in accordance with the laws of Hong Kong. Any dispute arising from these terms and conditions will be subject to the exclusive jurisdiction of the Hong Kong courts.



# Microsoft Azure OpenAI Studio

Azure OpenAI Studio

Privacy & cookies

## Get started with Azure OpenAI Service

Get example prompts for different scenarios and write prompts of your own. Export your prompts to code at any time to rapidly iterate at scale and integrate with your apps.



### Try the playgrounds

Get example prompts for different scenarios and write prompts of your own. Export your prompts to code at any time to rapidly iterate at scale and integrate with your apps.

GPT-3 Playground

ChatGPT playground (Preview)

## Explore examples for prompt completion



### Summarize Text

Summarize text by adding a 'tldr:' to the end of a text passage.

Learn more



### Classify Text

Classify items into categories provided at inference time.

Learn more



### Natural Language to SQL

Translate natural language to SQL queries.

Learn more



### Generate New Product Names

Create product names from examples words.

Learn more

## 開始使用 Azure OpenAI 服務產生文字

<https://learn.microsoft.com/zh-tw/azure/cognitive-services/openai/quickstart?pivot=programming-language-studio&tabs=command-line>

## Azure OpenAI Service pricing

<https://azure.microsoft.com/en-us/pricing/details/cognitive-services/openai-service/>

### Pricing details:

#### Language models

Models	Per 1,000 tokens
	Standard
Text-Ada	\$0.0004
Text-Babbage	\$0.0005
Text-Curie	\$0.002
Text-Davinci	\$0.02
Code-Cushman	\$0.024
Code-Davinci	\$0.10
ChatGPT (gpt-3.5-turbo)	\$0.002

GPT-4	Prompt (Per 1,000 tokens)	Completion (Per 1,000 tokens)
8K context	\$0.03	\$0.06
32K context	\$0.06	\$0.12

Azure OpenAI 提供許多不同模型的存取權，並依系列和功能分組。模型系列通常會依模型的預期工作建立關聯。下表說明 Azure OpenAI 中目前可用的模型系列。目前並非所有模型在所有區域都可供使用，如需完整明細，請參閱本文中的模型功能資料表。

模型系列	描述
GPT-4	一組模型可改善 GPT-3.5，並可瞭解並產生自然語言和程式碼。
GPT-3	一系列可以了解並產生自然語言的模型。這包括新的 ChatGPT 模型。
DALL-E	一系列可從自然語言產生原始影像的模型。
Codex	一系列可以了解並產生程式碼的模型。包括將自然語言轉譯成程式碼。
內嵌	一系列可以了解並使用內嵌的模型。內嵌是一種特殊的資料表示格式，可供機器學習模型和演算法輕鬆使用。內嵌是文字片段的資料結構表示法。目前我們為不同功能提供三種系列的內嵌模型：相似度、文字搜尋和程式碼搜尋。

# Azure OpenAI Studio - GPT-3 playground

Cognitive Services | Azure OpenAI Studio

Azure OpenAI Studio > GPT-3 playground

## GPT-3 playground

Deployments: text-davinci-002 | Examples: Load an example | View code

Start typing here

Parameters:

- Temperature: 1
- Max length (tokens): 100
- Stop sequences: Stop sequences
- Top probabilities: 0.5
- Frequency penalty: 0
- Presence penalty: 0
- Best of: 1
- Pre-response text: Enter text
- Post-response text: Enter text

Generate | Undo | Regenerate | Tokens: 0

[Learn more](#)





# Azure OpenAI Studio - GPT-3 playground

## GPT-3 playground

Deployments

text-davinci-002



Examples

Summarize Text



 View code

A neutron star is the collapsed core of a massive supergiant star, which had a total mass of between 10 and 25 solar masses, possibly more if the star was especially metal-rich.[1] Neutron stars are the smallest and densest stellar objects, excluding black holes and hypothetical white holes, quark stars, and strange stars.[2] Neutron stars have a radius on the order of 10 kilometres (6.2 mi) and a mass of about 1.4 solar masses.[3] They result from the supernova explosion of a massive star, combined with gravitational collapse, that compresses the core past white dwarf star density to that of atomic nuclei.

Tl;dr:

A neutron star is the collapsed core of a supergiant star. These incredibly dense objects are incredibly fascinating due to their strange properties and their potential for phenomena such as extreme gravitational forces and a strong magnetic field.

Generate

Undo

Regenerate

Tokens: 189 



# Azure OpenAI Studio - GPT-4 playground

The screenshot shows the 'Chat playground (Preview)' interface. On the left is a sidebar with 'Playground', 'GPT-3', 'Chat', 'Management', 'Deployments', 'Models', and 'File Management'. The main area is divided into three panels: 'Assistant setup' (with 'Empty Example' and 'System message' fields), 'Chat session' (with 'Clear chat' and 'Show raw JSON' options, and a 'Start chatting' instruction), and 'Parameters' (with settings for 'Deployments' (gpt-35-turbo), 'Max response' (800), 'Temperature' (0.5), 'Top P' (0.95), 'Stop sequence', 'Session settings' (Past messages included: 10), and 'Current token count' (801/4000)).

## 啟動聊天會話

1. 從 [助理設定] 下拉式清單中，選取[Xbox 客戶支援代理程式]
2. 系統會提示您詢問您是否要更新系統訊息，選取 [繼續]。
3. 在 [聊天會話] 窗格中，輸入下列問題：「我有興趣購買新的 Xbox」，然後選取 [傳送]。
4. 您會收到類似下列的回應：

The chat interface shows a user input: "I am interested in buying an Xbox?". The assistant's response is: "Great! There are several Xbox models available in the market, including the Xbox Series X, Xbox Series S, and Xbox One. The Xbox Series X is the latest and most powerful console, while the Xbox Series S is a more affordable option that still offers great performance. The Xbox One is the previous generation console, but it still has a large library of games available to play. Before purchasing an Xbox, you may want to consider factors such as your budget, the types of games you want to play, and whether you want to play games in 4K resolution. Once you have decided on a console, you can purchase it from a retailer or directly from the Xbox website. Let me know if you have any other questions or concerns!"

5. 輸入後續問題，例如：「哪些模型支援 4K？」

The chat interface shows a user input: "Which models are 4K?". The assistant's response is: "Both the Xbox Series X and Xbox One X support 4K resolution gaming. The Xbox Series S, on the other hand, supports up to 1440p resolution gaming, but it can upscale games to 4K. It's worth noting that in order to take advantage of 4K gaming, you'll need a 4K TV or monitor that supports HDR (High Dynamic Range) and HDMI 2.0 or higher."



# Azure OpenAI Studio - GPT-4 playground

6. 現在您已擁有基本交談，請從[助理設定] 底下選取 [檢視程式碼]，到目前為止，您將擁有整個交談背後的程式碼重新執行：

```
Python 複製

#Note: The openai-python library support for Azure OpenAI is in preview.
import os
import openai
openai.api_type = "azure"
openai.api_base = "https://docs-test-001.openai.azure.com/"
openai.api_version = "2023-05-15"
openai.api_key = os.getenv("OPENAI_API_KEY")

response = openai.ChatCompletion.create(
    engine="gpt-35-turbo", # replace this value with the deployment name you chose when you deployed the associ
    messages = [{"role":"system","content":"You are an Xbox customer support agent whose primary goal is to hel
    temperature=0,
    max_tokens=350,
    top_p=0.95,
    frequency_penalty=0,
    presence_penalty=0,
    stop=None)
```

[Privacy & cookies](#)

Deploy to...

↑ Import setup ↓ Export setup ⚙ Show panels

## Chat session

🗑 Clear chat 📄 View code  Show raw JSON

## Configuration

Deployment Parameters

Deployment \*

my-deployment

Session settings

Past messages included ①

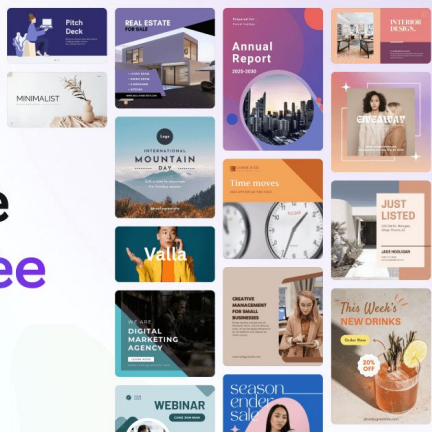
部署 Web 應用程式時，您應該選取 [建立新的 Web 應用程式]。選擇應用程式的名稱，這會成為應用程式 URL 的一部分。例如：<https://<appname>.azurewebsites.net>



# AI in Education Tools - Canva

Canva

Design made  
easy, and free



Canva is a free-to-use online graphic design tool. Use it to create **infographic**, **data visualisation**, social media posts, presentations, posters, videos, logos, ...

For student:

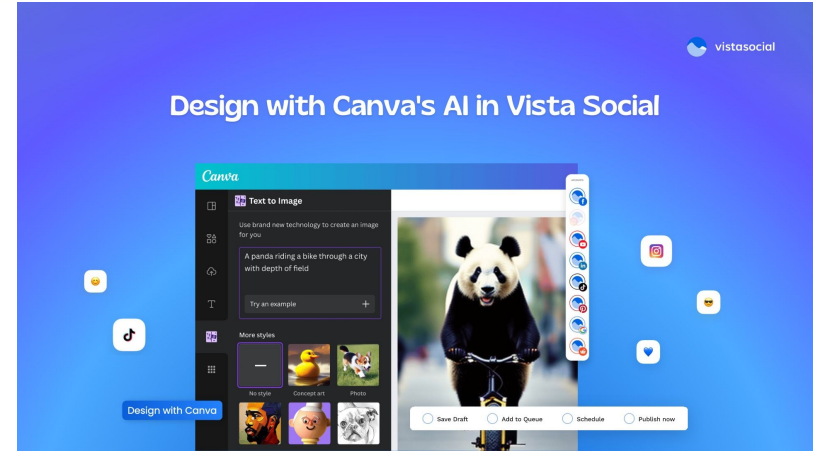
Assessment: Individual/group assignment

Communication: Present your study result to the public more effectively

For teacher:

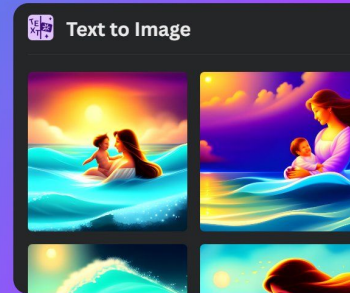
Course material: Raise interestingness

Assessment: A new way of assessment



**TEXT TO IMAGE**

**CREATE  
AMAZING AI  
IMAGES  
USING Canva**





# AI in Education Tools - Heuristica

Heuristica 🗺️

Heuristica uses the thinking mode of mind map and flow chart, combined with AI question answering and content generation, to help us complete "knowledge exploration"

## Heuristica

AI-powered knowledge exploration

### Limitless Exploration, Powered by ChatGPT

Explore all aspects of a subject using artificial intelligence, powered by ChatGPT

### AI-Powered Mind Maps

Use a node-based interface to visualize and work with information

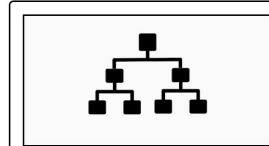
### No Prompting. Just Click

Dig deeper into a subject by simply clicking buttons

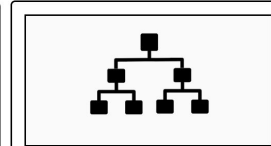
### Learn Simpler. Learn Better

Superpower your learning with helpers like ELI5, summarize, elaborate, analogize

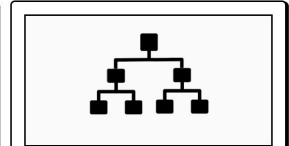
## Explorations



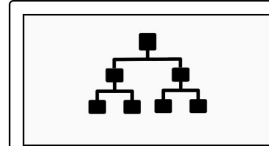
Quantum Computing



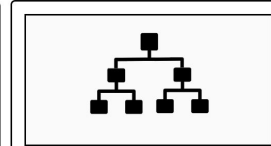
Time Travel



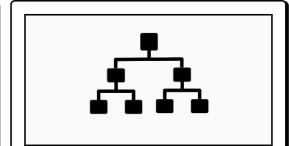
Options Trading



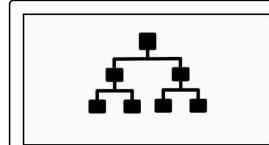
JavaScript



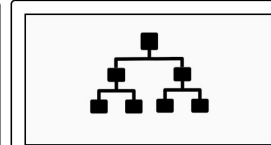
Lab-Grown Meat



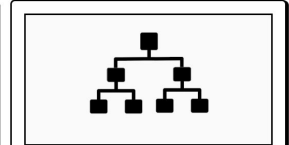
Generative AI



Large Language Models



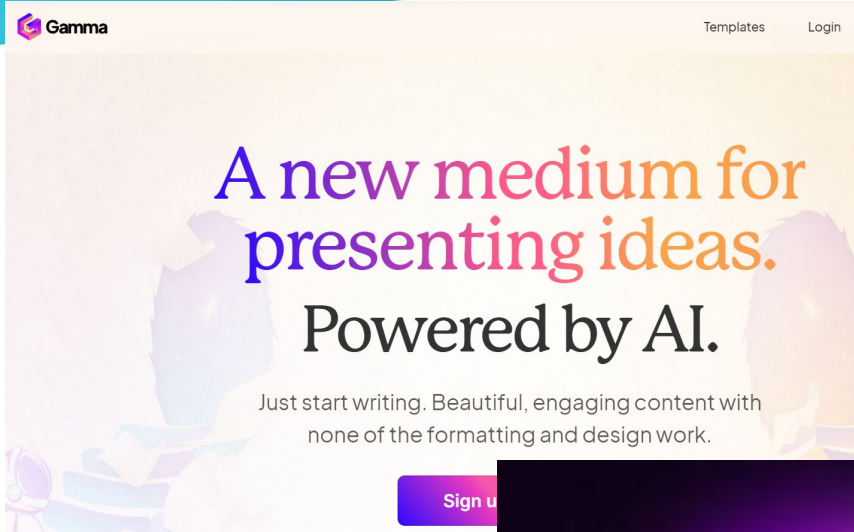
Inflation



Stock Market



# AI in Education Tools - Gamma



Gamma

Templates Login

## A new medium for presenting ideas.

### Powered by AI.

Just start writing. Beautiful, engaging content with none of the formatting and design work.

Sign up

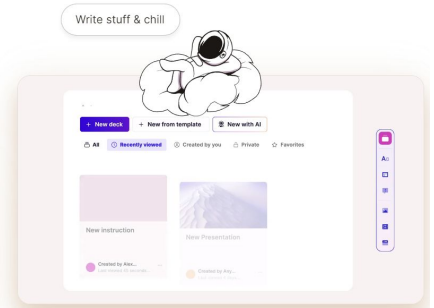
Never start from scratch

## Generate docs, decks & webpages in seconds

Create a working **presentation**, **document** or **webpage** you can refine and customize in under a minute, using our powerful **AI generator**.

Gamma allows me to package up information in **ways I can't with slides**, while still creating good flow for my presentations.

 Ann Marie, Director of Product at Koalafi



Welcome to Gamma

## What do you want to make?

A pitch deck for building a colony on Mars | **Generate**

<https://gamma.app/>



# AI in Education - 智寫意先導學校計劃

## Graded by AI

**2021 DSE ENGLISH PAPER 2 QUESTION #5**

Learning English through Debating

A social media influencer is a person who is paid by a company to promote goods and services through their social media networks. Surveys show that a majority of millennials trust the advice of social media influencers over a traditional media advertisements. Write an argumentative essay.

- Discuss whether social media influencers are more trustworthy than traditional media advertisements.
- Give reasons to support your point of view.

SUBMITTED ON: 2023-04-21 06:44    MARKED ON: 2023-04-21 06:56    STATUS: Marked

Submission

Social media influencers are everywhere on the internet nowadays. They are on social media platforms such as Instagram, TikTok, Facebook etc. In the eyes of millennials, at some degree, they are internet celebrities. Companies make use of this chance and hire the influencers to promote their products or services. There are already several surveys showing that majority of millennials trust the advice of social media influencers over traditional media advertisements. People may think that these influencers are not

Overall Grade: **5**

Sub Grades:

- Content: 5
- Language: 4
- Organization: 6

Word Count: **858**

## Expected DSE Grade

**STUDENT VIEW**

My Performance

Grade by assignment

My Expected DSE Grade: **4.27** Score

Writing Submitted

## Auto generated comment

Teacher's Comments

Here are some suggestions to improve the writing:

- Use more descriptive language to create a vivid image of the event in the reader's mind. For exvan "scrumptious snacks," use more specific adjectives like "delicious," "mouth-watering" or "tempting."
- Vary sentence structure to make the writing more engaging. For instance, instead of starting ever different sentence beginnings like "Throughout the day," "At the hall," or "For the first time."
- Use bullet points or numbered lists to break up the text and make it easier to read. This can also h information, such as the time and location of the event or the steps to sign up for the student-in-ct
- Consider adding subheadings to organize the information and make it easier to navigate. For ex for "Activities," "Performances," "Displays," and "Student-in-Charge Game Stalls."
- Proofread the writing for grammar, spelling, and punctuation errors. This will help ensure that the

## Suggested Rewrite (optional)

A Sample Rewrite of a Better Grade

Once upon a time, the Tortoise and the Hare were the best of friends, but they often boasted about their running abilities. The Hare was convinced he was the fastest runner, but the Tortoise disagreed, saying he could run just as fast. To settle the matter, they agreed to have a race and see who would come out on top.

On the day of the race, the Hare sprinted ahead of the Tortoise, confident he would easily win. But as he ran, he noticed his friend lagging behind and became concerned. When he turned back to check on the Tortoise, he accidentally collided with a tree and fell to the ground, unable to continue.

The Tortoise, who had been steadily making his way along the course, eventually caught up to the Hare and found him injured. Despite the fact that he could have easily won the race, the Tortoise chose to help his friend instead of taking advantage of the situation. He carried the Hare on his back and slowly made his way to the finish line, never giving up on his friend.

In the end, the Tortoise and the Hare both lost the race, but they gained something much more valuable: a deeper appreciation for their friendship and the importance of caring for one another.

## Common Problems

- Grammatical errors: One of the most common problems that students face when writing in English is grammatical errors. These errors can range from simple mistakes in subject-verb agreement to more complex issues like incorrect use of tenses or prepositions.
- Poor sentence structure: Many students struggle with constructing clear and concise sentences that convey their intended meaning. This can lead to confusion and a lack of coherence in their writing.
- Limited vocabulary: Students often use vague language that doesn't effectively convey their ideas.
- Ineffective use of transitions: Many students struggle with transitions that may not flow smoothly between paragraphs.
- Lack of focus: Without a clear argument or narrative in their writing, it can be difficult for the reader to follow the text.
- Difficulty with research and citing them in their writing.
- Lack of editing and proofreading: Many students do not take the time to correct errors in grammar, spelling, or punctuation.

## Grade distribution

**ALL CLASSES**

Grade distribution

Grade	4A	4B	4C	4D
1	4	2	1	0
2	7	5	4	26
3	7	10	12	42
4	12	17	10	50
5	11	11	6	28
5*	4	2	0	6
5**	0	0	0	0

Average Grade: **4.33**

Top 5 Students:

- Chan Wai-tam (5.93)
- Cheung Wai-wai (5.74)
- Yeung Ka-chun (5.60)
- Wong Hiu-yan (4.69)
- Leung Ka-yan (4.46)

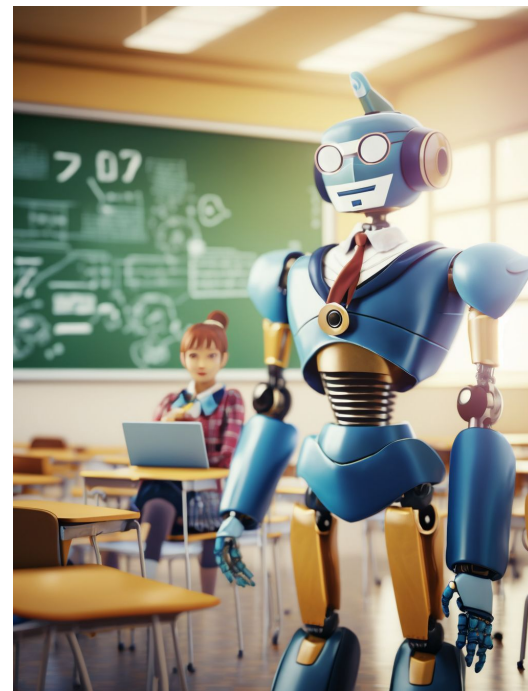
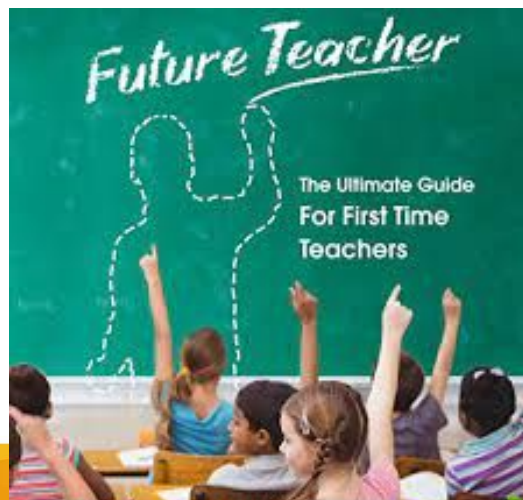
# AI as Education Assistant

## 教師

- ★ 助理
- ★ 用各種方式來解釋(與生活連結)
- ★ 備課 / 教案 / 出題 / 評量標準

## 學生

- ★ 即時互動(對話式)回饋
- ★ 用於補充搜尋的資料
- ★ 個人化學習導師
- ★ 「用計數機學習數學」





# 生成人工智能(Generative AI) 安全風險

- ★ 結果可能不可信 AI Hallucination / Information Biases
- ★ 缺乏對 2021 年後的世界和事件的了解 Outdated
- ★ 提交的內容可能會導致數據洩露 Data Breach
- ★ 可被用來幫助編寫網絡釣魚消息和惡意代碼

→ UNESCO “ChatGPT and Artificial Intelligence in Higher Education”

→ IBO “Academic Integrity Policy -

Appendix 6: Guidance on the use of artificial intelligence tools”

## AI 資訊素養

教育基建

學校、學生、家長 (鐵三角)



<https://egtechblog.com/7-keys-to-be-a-creative-genius/>

明報  
文摘

### 真/假資訊？

王若冰 中大香港亞太研究所博士後研究員

如果放任真假資訊在同樣的環境下傳播，不僅完全不利於真相的傳遞，更會嚴重影響廣大社會讀者對於真假的分辨，甚至造成群體性錯誤認知。



# AI Information Literacy 資訊素養



**Attitude (態度)**

**態度決定一切**

**Attitudes Define All**

**教育工作的重要！**



# 未來課堂變革

- ❖ 自主的學習者 (學習場地)
- ❖ 以學生為中心設計教學活動, 讓學生自行**建構知識**
- ❖ 師生關係的重要 (教師課堂的促進者)
- ❖ 重新設計課堂 - 及早面對AI革命 **增值及掌握**
- ❖ 著重學習「**過程**」多於「**結果**」--> 評估 (Assessment)

與時並進 沒有完美的工具 (教師的專業)

全面考慮學生的需要 (校情為本)

# 未來的教育和學習的特性

- 高度個性化
- 自主化
- 科技賦能的學習
- ❖ 善用一切網絡學習資源及工具
- ❖ 借助多元工具提高學生參與度
- ❖ 設計同步和異步活動
- ❖ 增強教師與學生以及學生之間的互動交流





聖公會李福慶中學  
SKH LI FOOK HING  
SECONDARY SCHOOL

# 中學分享-應用人工智能促進 學與教效能

Together ...



... We Can

# Thank you! Q&A

