

# Artificial Intelligence in education – friend or foe?

## Communicating Cambridge's Approach to Generative AI

Jesse Dvorchak – Deputy Director, Digital Products and Services Innovation

Sanjay Mistry – Head of Research for Digital Assessment & Evaluation

18<sup>th</sup> March 2024

# Education & AI

*Can We No Longer Believe Anything  
We See?* The New York Times

Australian universities to return to 'pen  
and paper' exams after students caught  
using AI to write essays The Guardian

Teacher assessment  
'impossible' amid  
ChatGPT rise tes  
magazine  
since 1930

Education

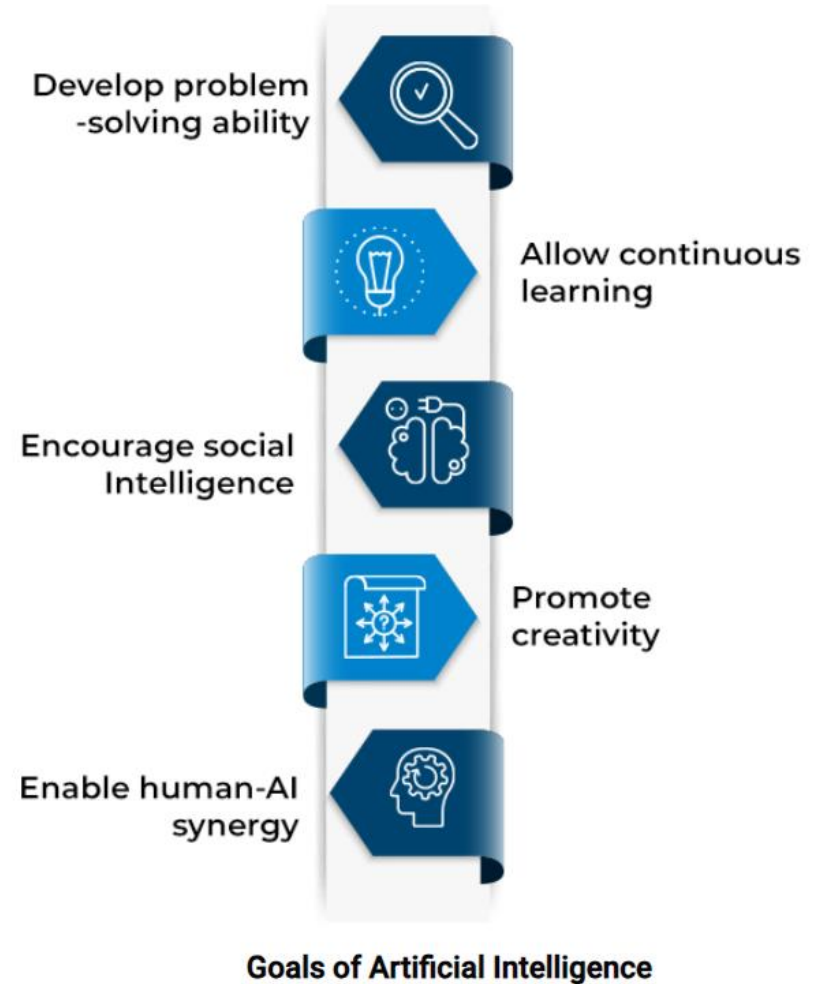
AI Will Transform Teaching and  
Learning. Let's Get it Right Stanford University  
Human-Centered  
Artificial Intelligence

# Contents slide

- Defining AI
- Understanding the impact of AI in assessment
- Cambridge's response to AI in assessment
- Considering AI in Teaching & Learning
- AI considerations for schools

# Defining AI Uses & Purpose

- AI is primarily achieved by reverse-engineering human capabilities and traits
  - Then applying these to machines (i.e., computer programming)
- AI learns human behaviour to develop intelligent machines
  - Computer systems to work intelligently yet independently

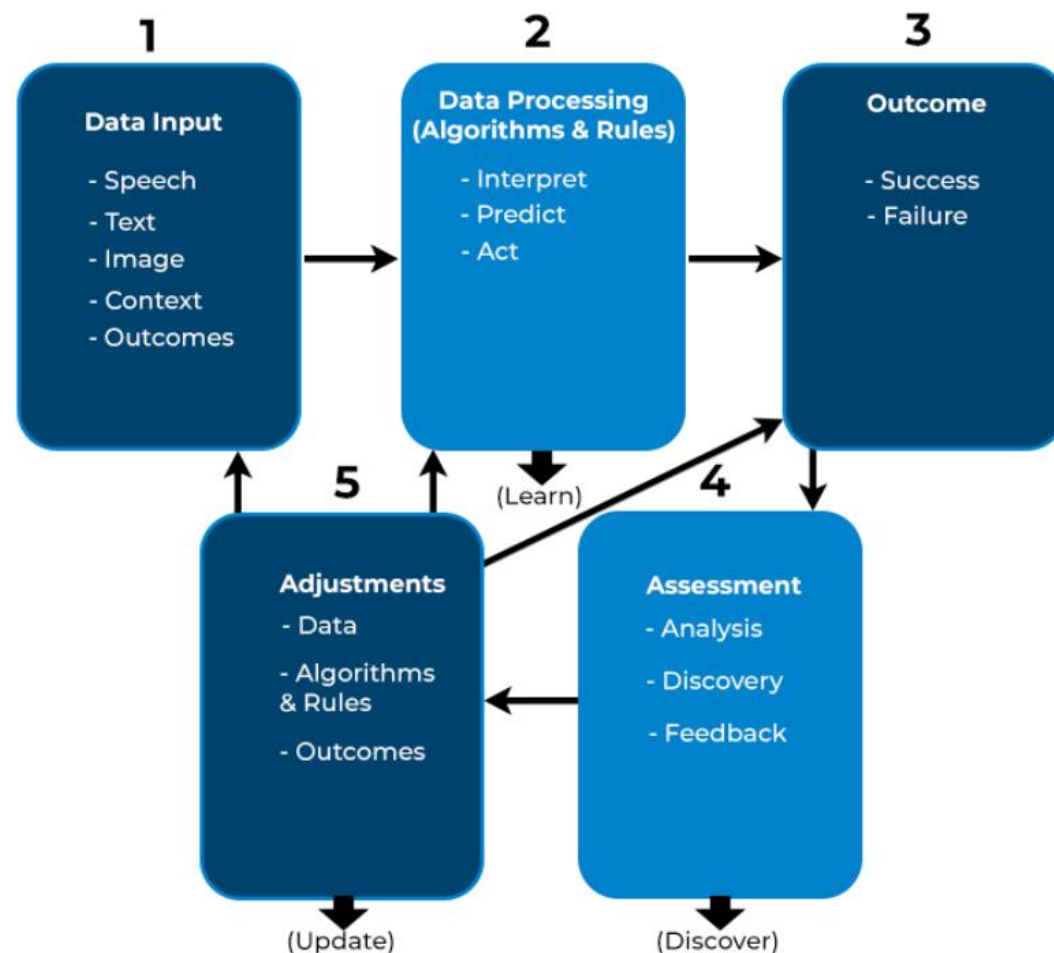


# How does AI work?

Let's give it a try...

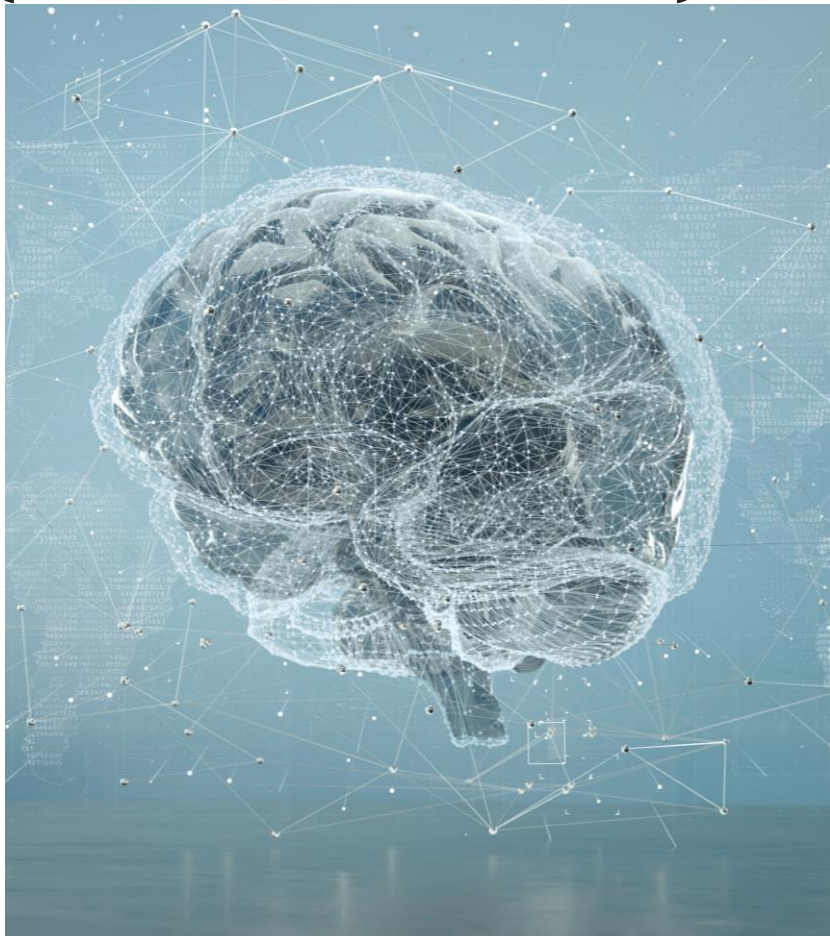
## How do you make a cup of tea?

- Take 2 minutes to list in order all the steps you regularly use to make a cup of tea
- Be as specific as possible



How AI Works

# Risks, issues with and concerns with AI use in Education (Discussion task)



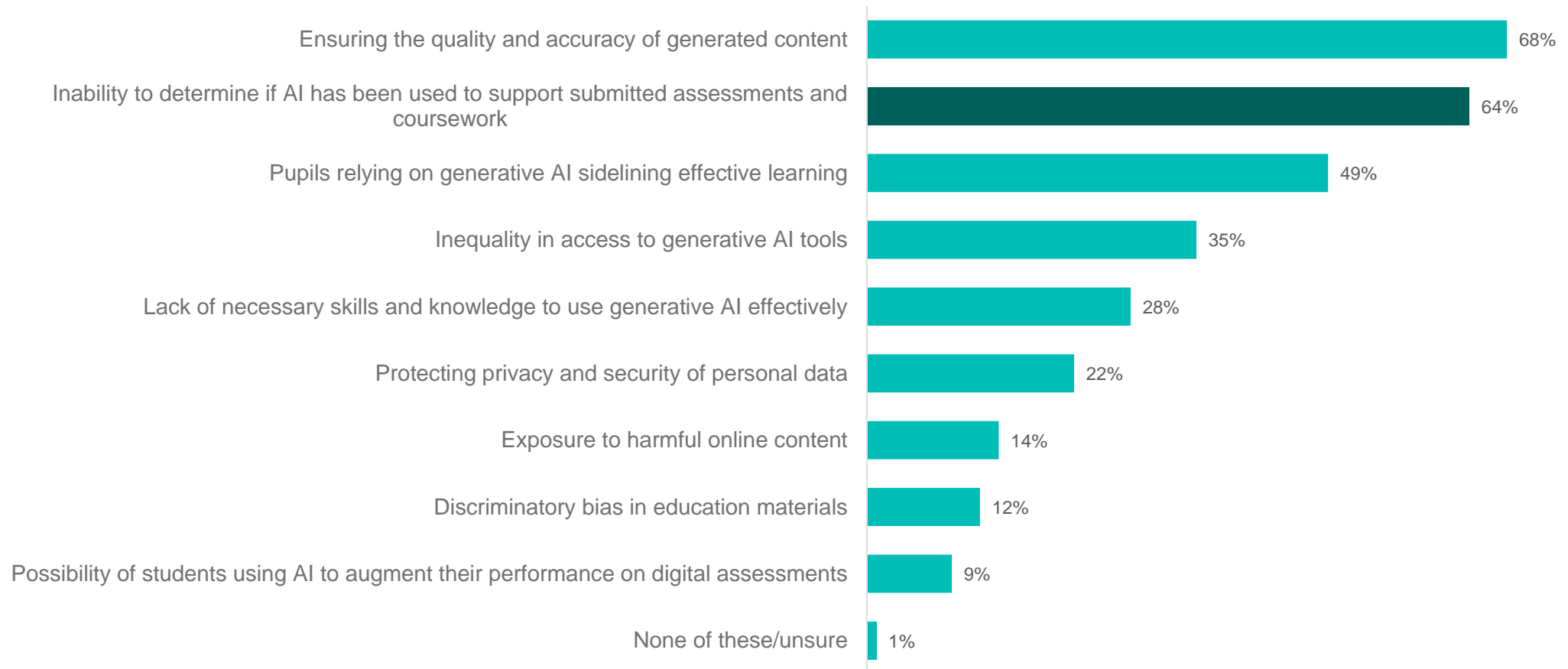
**What do you see as the potential risks, issues and concerns of AI in Education?**

- Have you come across any risks or issues whilst using AI in the classroom?
- How have you and/or your school dealt with them?
- What concerns do you have for the future?

Discuss within the chat.

**(5 mins discussion time and 5 mins feedback)**

# What challenges have our schools identified?



Researching all the way around the concept

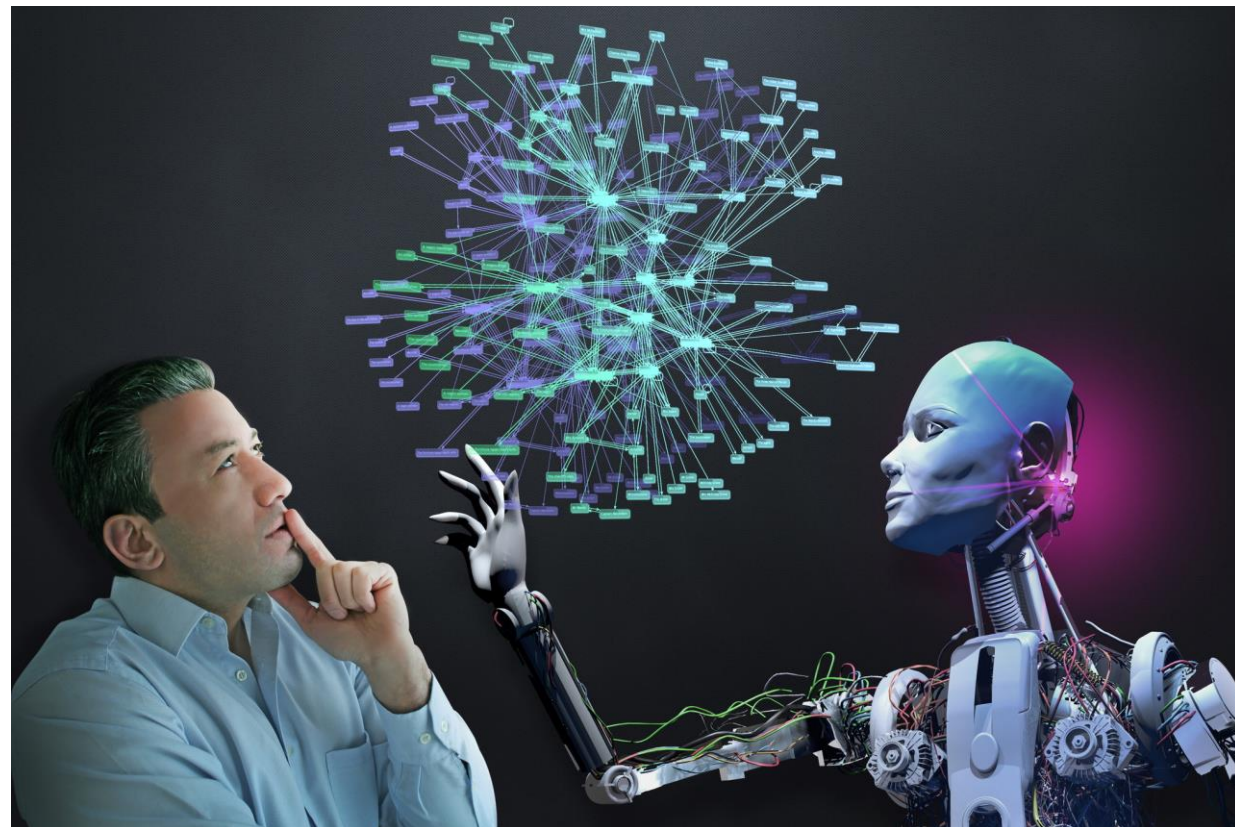
# Understanding the Impact on *Assessment*



# How would students use AI on a Cambridge assessment?

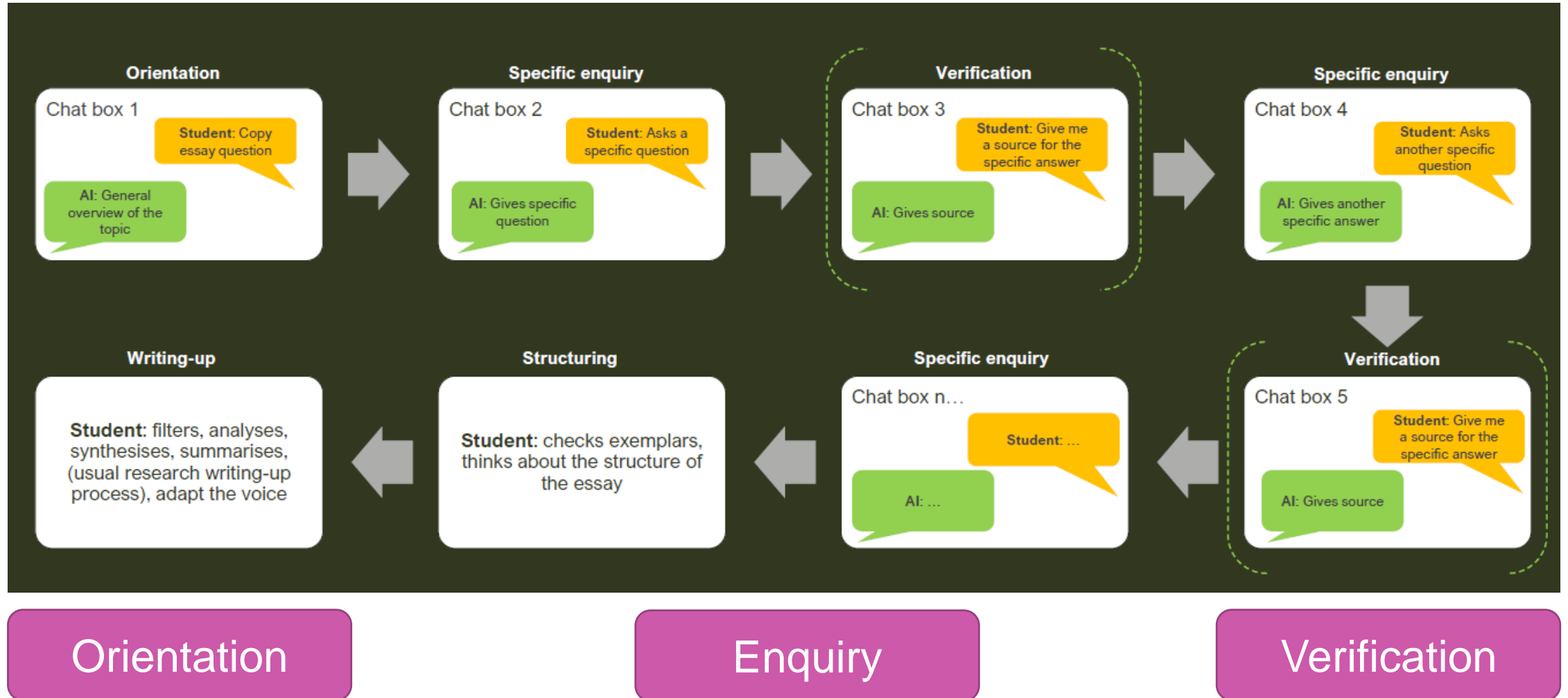
- Pilot Study - Writing Essays Using AI

How do students engage with ChatGPT technology in assessment context?



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# How the students used AI



# Deepfakes and spurious sources

Maltby, J., Day, L., & McCutcheon, L. E. (2006). Celebrity Worship and Its Relation to Mental Health: A Longitudinal Study. *Journal of Social and Clinical Psychology*, 25(3), 327–357. <https://doi.org/10.1521/jscp.2006.25.3.327>

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Extreme celebrity worship, fantasy proneness and dissociation: Developing the measurement and understanding of celebrity worship within a clinical personality context.

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Maltby, John Day, Liza McCutcheon, Lynn E. Houran, James Ashe, Diane

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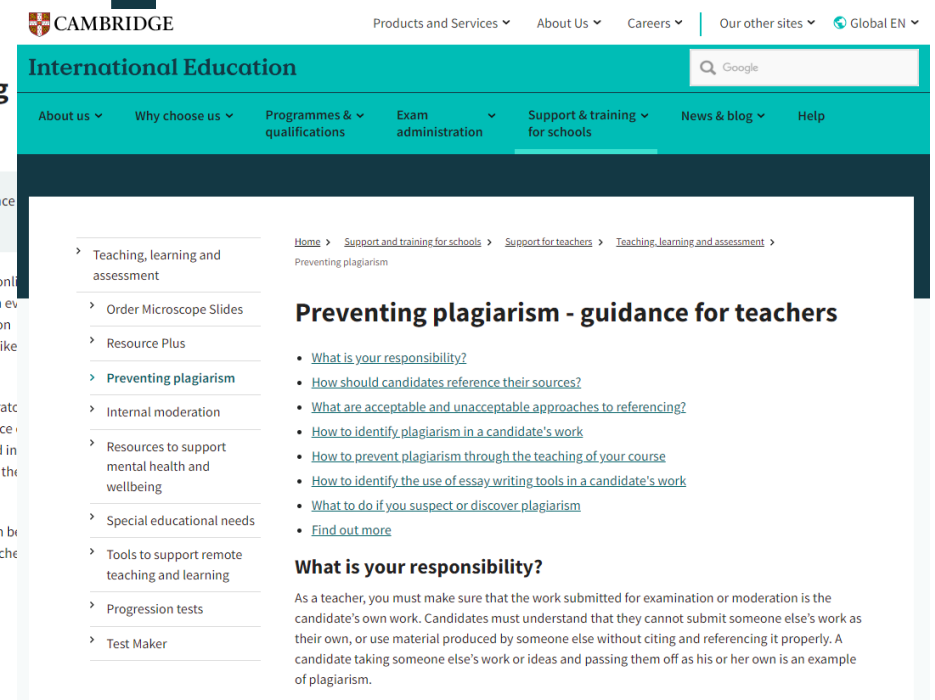
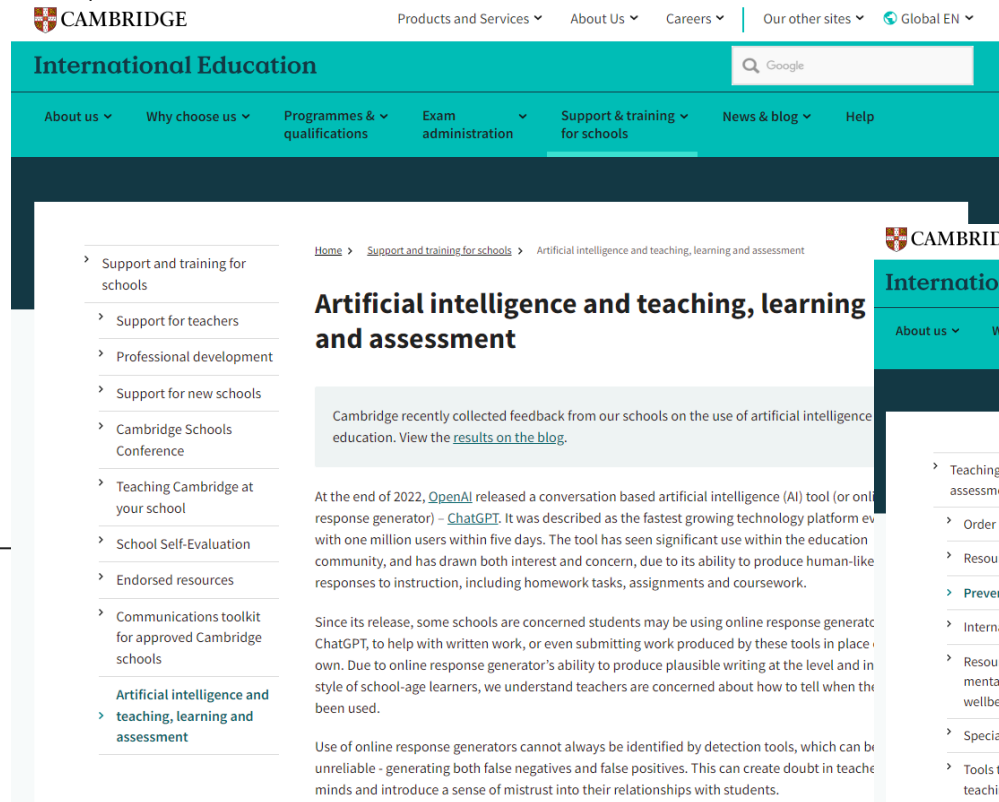
Perceiving Normality in Clients as a Potent Social-Cognitive Treatment Approach

John H. Riskind, Michael Bombardier, Catherine Ayers

CURRENT ISSUE



# The Cambridge response



**Cambridge Schools Conference, March 2024**  
 Effective communication: from competence to confidence

# How is Cambridge considering these findings?

## Updated policy considerations:

- The following uses of generative AI programs by students in the preparation of material for submission as coursework are acceptable if clearly acknowledged in the work:
  1. To carry out initial research into a topic in preparation for a written study. This is no different from browsing in a search engine and citing websites visited in the bibliography. Candidates should cite clearly the prompt or series of prompts they used.
  2. To quote briefly from AI generated text within an essay and engage in critical discussion of the quotation. Quotations must be clearly acknowledged and identified within the candidate's writing, and like any other source of evidence should be contextualised and reviewed.
- Revised policy on **The use of generative AI in coursework from November 2023**

## AI policies for Live Exam Series

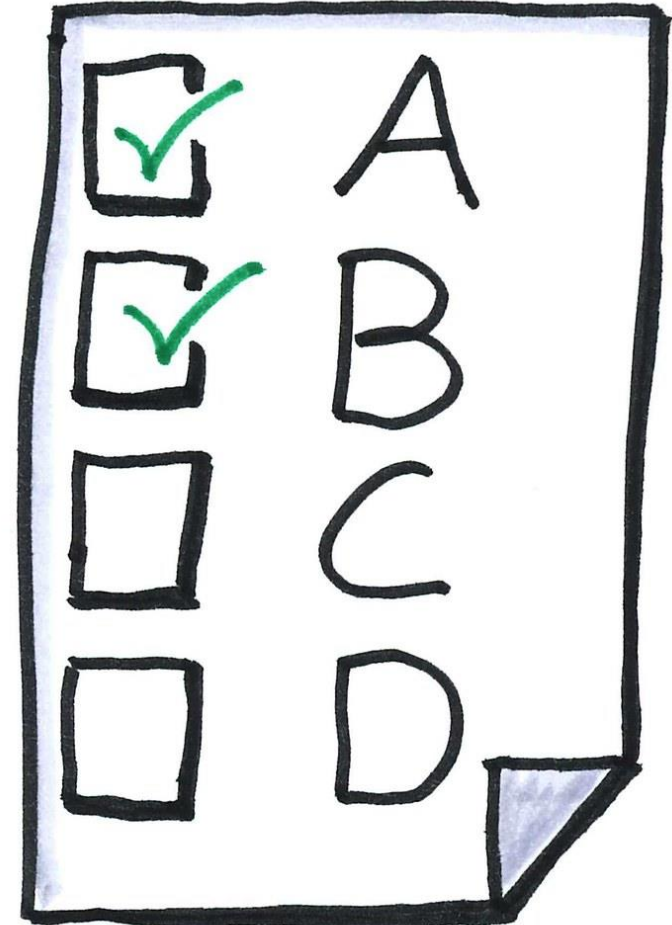
- Any digital assessments will have a locked-down platform

# Applications for Developing Assessment Content

- Using AI to develop test items
  - Grounded Large Language Model
  - LLMs can be used to generate anomalous responses (e.g., off-topic, tangential responses) to resolve the problem of data deficiency in automarker training and evaluation. For example, exemplary off-topic responses or responses containing abusive language is hard to find in real data but can be generated by LLMs.
  - Using LLMs to create anomalous responses in automarker training and evaluation
- Hackathons to develop MCQ distractors
- Two team projects focussed on content generation for IGCSE Multiple Choice Biology Questions
  - Using ChatGPT to generate questions then reviewing accuracy
  - Item writers will feed into the development of an item writing assistant, which will then produce items and compare to items created using manual process

# Using AI for Scoring

- Researching how AI can be used to score our assessments
  - Short answers
  - Automated essay scoring (AES)
- Using the Mock Service responses to train a grounded LLM
- Proof of concept of evaluating an AI Automarker in terms of accuracy for the marking of longer response question types with the potential for using within the mock service



It's still learning and teaching...

# Understanding the Impact on Teaching & Learning



# Uses of AI in the classroom

Question  
generation

Mark scheme  
creation

Response  
checking

Drafting  
tool

Resource  
creation

Formative  
feedback

Support for  
revision

Planning &  
preparation

# Seven Approaches...

AI USE	ROLE	PEDAGOGICAL BENEFIT	PEDAGOGICAL RISK
<b>MENTOR</b>	Providing feedback	Frequent feedback improves learning outcomes, even if all advice is not taken.	Not critically examining feedback, which may contain errors.
<b>TUTOR</b>	Direct instruction	Personalized direct instruction is very effective.	Uneven knowledge base of AI. Serious confabulation risks.
<b>COACH</b>	Prompt metacognition	Opportunities for reflection and regulation, which improve learning outcomes.	Tone or style of coaching may not match student. Risks of incorrect advice.
<b>TEAMMATE</b>	Increase team performance	Provide alternate viewpoints, help learning teams function better.	Confabulation and errors. “Personality” conflicts with other team members.
<b>STUDENT</b>	Receive explanations	Teaching others is a powerful learning technique.	Confabulation and argumentation may derail the benefits of teaching.
<b>SIMULATOR</b>	Deliberate practice	Practicing and applying knowledge aids transfer.	Inappropriate fidelity.
<b>TOOL</b>	Accomplish tasks	Helps students accomplish more within the same time frame.	Outsourcing thinking, rather than work.

# Importance of the teacher

- Existing skills & expectations
- Academic rigour
- Source analysis
- Reliability, bias
- Critical and creative thinking skills
- Cambridge Global Perspectives

Our children need to be equipped for the dystopian brave new world



DAVID DE CARVALHO

My mother is about to turn 90. She has just successfully completed two short online courses in Chinese history through HarvardX (and has emailed copies of certificates to her six children).

What motivated her? She didn't need it for her career. It was completely disconnected with any practical or financial concerns. So was it for pleasure? No, because she could have just continued to enjoy the various history documentaries she watched on books shelves. "It was very difficult."

So why did she put herself through it?

"Because I wanted to keep my mind active and needed to ensure that what I was learning was trusted based on the knowledge of the academic experts who chose the readings and ran the course, not just opinion and propaganda."

In other words, she was driven by what Canadian Jesuit philosopher Bernard Lonergan has described as "the eros of the human spirit, our pure and unrestricted desire to know."

While academic expertise and opinion and propaganda are not always and everywhere mutually exclusive – the boundary between evidence and ideology is sometimes more porous than we would like to imagine – my mother needed to be confident that she would finish the course with correct understanding, and this confidence would flow from it being monitored against an external standard set by authoritative specialists.

It goes without saying that she did not use ChatGPT to help her write any of her assignments. There was no reason for her to plagiarise its output in any way. To have done so would have completely undermined her intrinsic motivation, namely deepening her own understanding.

But for school or university students, the situation is not so straightforward. For many if not most of them the award of the credential is a more powerful extrinsic motive more important than the underlying understanding for which it purports to provide evidence. This is a function of the way our education system has evolved into an instrument at the service of the economy, a testing mechanism and a tool for training that prepares people for work.

If cheating using artificial intelligence improves one's chances of passing the credential but reduces the actual depth of understanding, then more may make the calculation that the credential is more important and act accordingly.

But there are more urgent problems. First, in the age of AI, what employment opportunities will there be for those graduates once they gain these credentials? Many of the jobs in the so-called



## 'We don't need no education': schooling in the age of AI

knowledge economy will be done much more effectively and cheaply by AI systems. All those people studying and working in data analytics across multiple industry sectors should be worried.

When Geoffrey Hinton quit his job at Google last month, he said many of these jobs would disappear overnight. On cue, the share price for tech giant Cheng which produces homework study guides in the US, plummeted by 50 per cent overnight due to fears about competition from ChatGPT.

What happens to Cheng's "knowledge workers"?

Perhaps even more worrying, Hinton said he was concerned that developments in artificial intelligence – with its ability to produce "deep fakes", meant we were entering a world in which we would "not be able to know what's true any more". A concern recently echoed by Australia's Human Rights Commissioner, Loraine Finlay.

So the ChatGPT phenomenon, in addition to raising questions of academic integrity, is raising important questions about how we govern, technological change, trust and reliability of sources of information, about the nature of truth and knowledge, about humanity's self-perception as the smartest species on planet.

One called "character education", this notion tended to carry the sense of compliance with a set of extrinsic and perhaps socially shaped behaviours. But developing in our students a commitment to thoughtful, honest, respectful human agency, respectful of others and embracing the common concerns of one's community, this is indeed the wider objective of those who call themselves educators to help young people come to know themselves and the power they have to change the world.

It used to be that to describe someone as educated meant that person's innate talents, interests and desires had been cultivated, enhanced, refined, deepened, broadened and developed with the help of elders and experts in a variety of disciplines who understood that learning was as much about attitudes as aptitudes. Now the term education connotes in the popular mind something much thinner – a process of acquiring skills and knowledge that will make us employable.

But if AI is going to do our jobs so much more cheaply and effectively what does that mean for the way we think about education's purpose? Perhaps we need to return to that earlier meaning of being educated – the meaning embodied by my mother's efforts – because the more utilitarian rationale of being seriously under-motivated because of the personal

problems with many of the current convictions about AI and education is that they tend to focus on questions like how can we ensure academic integrity and how can we use AI in the classroom to improve student learning.

While these are perfectly reasonable and important questions to ask, they are bounded by very short time-horizon, and they frame AI as simply the latest in a long list of technologies – like paper replacing slate and calculators replacing logarithm books – that can be integrated across time into the existing paradigm of schooling and its employment-related purpose.

It's akin to asking "How do we harness this powerful new device to our existing educational 'baggy'?" A better way to consider the situation is "How do we start this tsunami?" But to put the issue into sharper focus, it's arguably more akin to the passengers on the Titanic, asking "Shall we put the deckchairs here or there?"

All an iceberg that is going to sink the current schooling paradigm because it is disrupting the society for which schooling is supposed to prepare our children.

Many if not most of us are not prepared to ignore AI's dominance and leaving governments and regulatory agencies well behind them. Their commercial motives are not aligned with the interests

of democracy, which relies on open debate and free exchange of ideas about factual situations.

The global network platforms are designed to give us more of what we want – feeding our own biases and prejudices – not what we need objective reliable facts.

So what is the new paradigm of education that will ensure that the economic, social and cultural disruption being caused by AI serves humanity rather than erases it?

During the next few months, education ministers will consider a new version of the National School Reform Agreement, which aims to give effect to the Albanese government's Education Declaration signed in December 2022.

That statement says our education system should promote bold, excellence and equity, and that it should produce young people who are "successful lifelong learners, confident and creative individuals, and active and informed members of the community".

Right now there is a particular need to focus on the third of these active and informed citizens, this is because of the money that despite advances in technology such as ChatGPT giving us access to more information than ever, this access has not led to a new Age of Enlightenment.

It also represents a threat to people's mental health as they confront a world of meaningless and find themselves standing at a bottomless abyss of relativity.

This existential threat to our sense of personal and autonomy and agency is under threat when more and more decisions that affect our lives are being made by machines.

So schooling, while preparing our children as best it can for the changing world of work is going to need to focus more on those aspects of humanity that are exclusively human and vitally important for our development as democratic communities.

In addition to reading, writing, numeracy and digital literacy, the other four general capabilities in the Australian Curriculum – ethical understanding, personal and social capability, intercultural understanding, and critical and creative thinking, are going to be more and more important.

But the focus cannot come at the expense of factual knowledge and an emphasis on literacy. Rather, it has to come through the teaching of a knowledge-rich curriculum, taught by teachers whose social and cultural roles as authoritative sources of knowledge and wisdom needs to be re-examined and redefined in the age of AI.

David De Carvalho is chief executive of the Australian Curriculum, Assessment and Reporting Authority.

Rather, as Tom Nichols has written in his 2017 book *The Death of Expertise*, it has "helped fuel a surge in narcissistic and unbridled anti-intellectual egalitarianism that has crippled the ability of informal reasoned debate on all manner of public issues".

Building on the epistemic relativism encouraged by postmodernism, our age is one in which all opinions are equally valid, and the internet will provide to all with whatever "alternative facts" we need to give our prejudices the veneer of rationality.

There are so many "facts" at our disposal, we feel free just to choose the ones that fit our prejudices, and not bother with asking the question as to what, ultimately, is true and good.

While postmodernism has led to many important insights about power and ideology, a damaging aspect of its legacy has been the undermining of the importance of factual truth and cultural reference points. The undermining of the solid ground of reality on which individuals can base their own solid sense of self and community and of their own agency in a world that is knowable, a world in which things can be true or false, represents a serious threat to our democratic society.

It also represents a threat to people's mental health as they confront a world of meaningless and find themselves standing at a bottomless abyss of relativity.

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David De Carvalho is chief executive of the Australian Curriculum, Assessment and Reporting Authority.

In a few weeks, four governments will celebrate my mother's 90 years of life, an occasion for reflection as well as for joy. Of her many virtues, perhaps the one I will celebrate the most is her remarkable curiosity about important things. The desire and ability to keep asking the big questions about life is what defines us as human beings. We need to ensure our schooling system keeps lighting the flames of our very human wonder.

David De Carvalho is chief executive of the Australian Curriculum, Assessment and Reporting Authority.

THE AUSTRALIAN

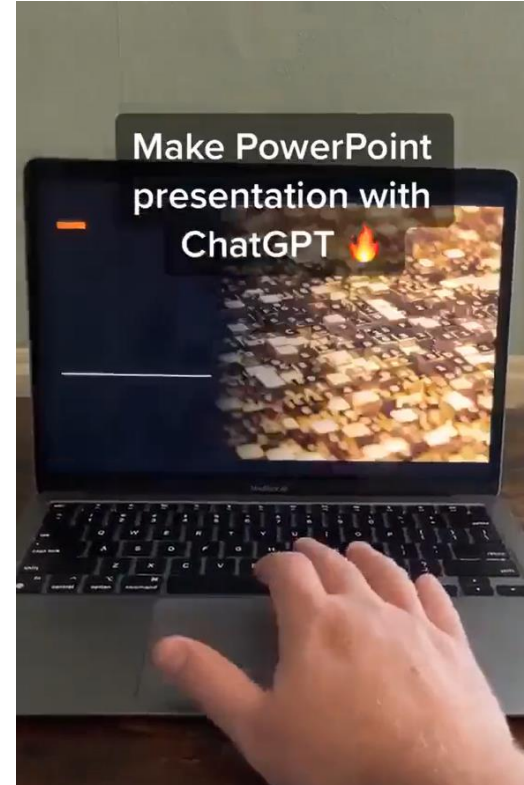
Friday, June 16, 2023

Cambridge Schools Conference, March 2024  
Effective communication: from competence to confidence

# Huge opportunities with AI – more than a tool?



Generative AI in Photoshop



AI content generation



# Appropriate use

- Positive, impactful uses of AI
- Making use of existing Cambridge guidance
- Command words
- Foster higher-order thinking and deeper levels of understanding
- Evidence of understanding
- Contextualisation
- Reward positive use

## Teaching Cambridge at your school

- > Implementing the curriculum with Cambridge
- > Developing your school with Cambridge
- > Developing the Cambridge learner attributes
- > Cambridge principles into practice - languages guide for schools
- > Education briefs
- > Getting started with...
- > Great teaching toolkit: Evidence review

[Home](#) > [Support and training for schools](#) > [Teaching Cambridge at your school](#)

## Teaching Cambridge at your school



We are committed to providing a high level of support for school leaders and teachers delivering Cambridge programmes.

We've produced a series of resources to support the teaching and learning in your school. They explore different aspects of educational practice, from designing a curriculum to improving the quality of classroom activity.

These pages bring together a collection of these resources. They examine important educational themes and show how they are relevant to Cambridge schools.

Here you will find:

- **[Implementing the curriculum with Cambridge](#)** – practical advice on designing, developing, implementing and evaluating your curriculum.
- **[Developing your school with Cambridge](#)** – focusing on classroom-level activity, guidance on improving the quality of teaching and learning in your school.

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# Feedback

- What did you do ‘before AI’?
- Impact of effective feedback
- How might you make use of AI to support your practice?
- Not AI automation and replacing teachers
- Enhancing existing techniques
- Formative feedback opportunities

## Assessment for learning

Assessment for learning (AfL) is an approach, integrated into teaching and learning, which creates feedback for students and teachers in order to improve learning and guide their next steps.

### What does assessment for learning mean?

AfL focuses on both the teacher and student understanding three key things:

1. Where the learner is going. Sharing the aims of a lesson and success criteria helps learners to see what they are aiming for and what they need to do to achieve those aims.
2. Where the learner is now. Techniques such as effective questioning will help teachers to gauge what individuals and groups have learnt during a lesson, generating evidence of learning that both teacher and students can make use of.
3. How can the learner get there? Teachers use this evidence of learning to inform choices about what they will do next with a class or individual students. Learners can use this evidence to make decisions about their learning, such as how to spend their independent study time.



AfL is concerned with maximising the feedback process (teacher to student and student to teacher) to optimise student learning. Feedback ranges from the informal (e.g. oral comments given immediately to learners as they think through problems), to more formal (e.g. written feedback given after an end-of-topic test). AfL also involves high-quality peer and self-assessment where learners or peers may be involved in making decisions about future learning needs (Wiliam, 2018).

The term 'assessment for learning' became popular in the 1990s. At this time there was concern that learners were being over-assessed and that there was a disproportionate focus on end results (assessment of learning) rather than on assessment processes that could actively enable learners to make progress. Both assessment for learning and assessment of learning are valuable in education, but they have different purposes.

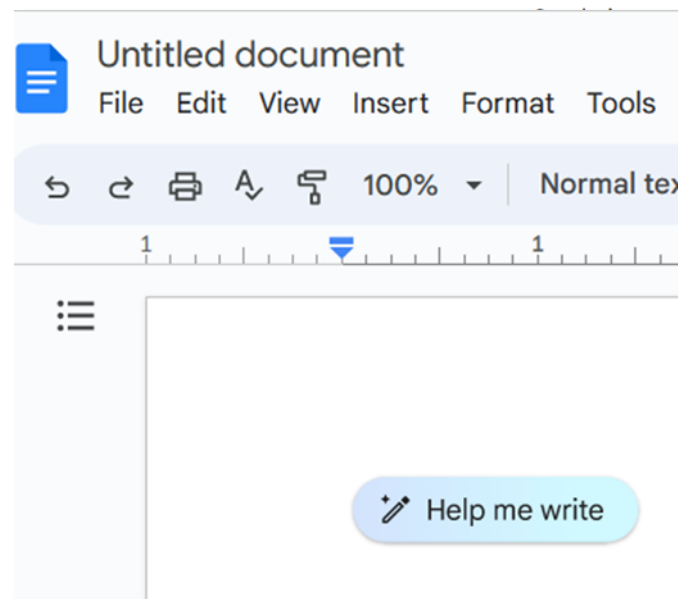
# Structuring and scaffolding

- Use of AI to support existing practice
- Providing a structure for an extended essay
- Drafting work in class
- Discussion and awareness of AI 'hallucination' and confabulation
- Encouraging the importance of reviewing, checking sources, traceability
- Academic honesty

≡ Bard [Experiment](#)

🌟 Sure, I can help you write an essay about climate change for Cambridge Global Perspectives. Here is a good structure to follow:

- Introduction
  - Introduce the topic of climate change and explain why it is a global issue.
  - Provide a brief overview of the causes and effects of climate change.
- Body
  - Discuss the different perspectives on climate change.
  - Analyze the evidence for and against different perspectives.
  - Evaluate the potential solutions to climate change.



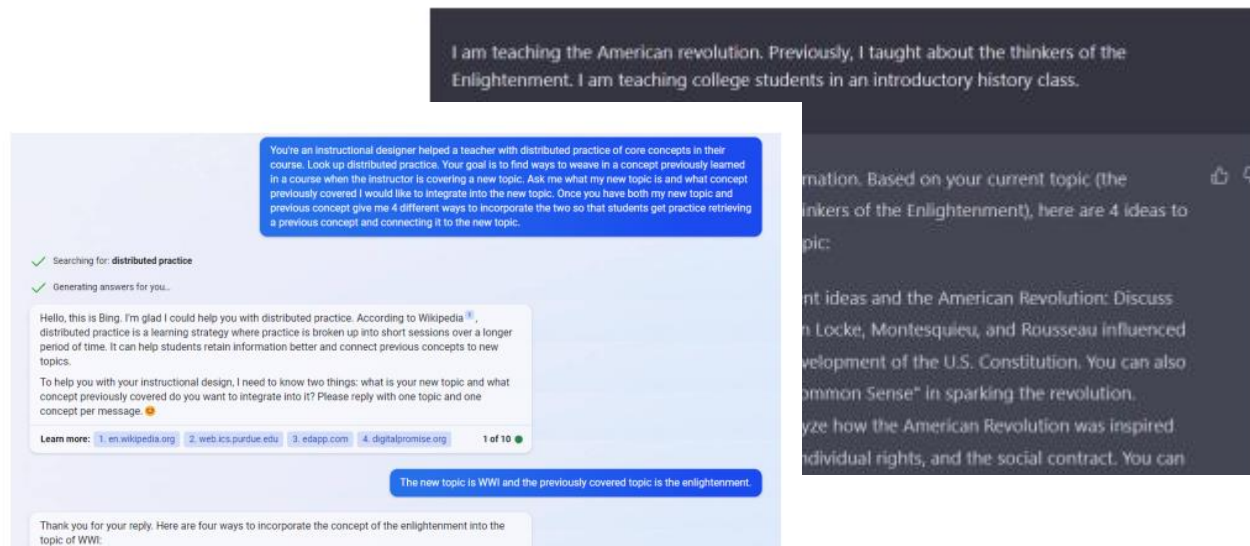
the main points of your essay.  
r thesis statement.  
to action.  
final tips for writing an essay about climate change:  
from credible sources. When you are writing about a controversial issue like  
it is important to use evidence from credible sources. This will help to strengthen  
nd make your essay more persuasive.  
hen you are writing about a controversial issue, it is important to be objective. This  
should avoid stating your opinion as fact. Instead, you should present the  
the reader decide what they think.  
y you are evaluating the evidence, it is important to be critical. This means that  
der the source of the evidence, the methods used to collect the evidence, and  
n of the evidence.





# Effective questioning

- Emerging powerful approaches to use AI
- Prompt engineering
- *Promptcraft*
- Teachers' existing skills and expertise
- AI as a 'force multiplier'



## Using AI to Implement Effective Teaching Strategies in Classrooms: Five Strategies, Including Prompts

26 Pages • Posted: 24 Mar 2023

Ethan R. Mollick

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Lilach Mollick

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Date Written: March 17, 2023

### Abstract

This paper provides guidance for using AI to quickly and easily implement evidence-based teaching strategies that instructors can integrate into their teaching. We discuss five teaching strategies that have proven value but are hard to implement in practice due to time and effort constraints. We show how AI can help instructors create material that supports these strategies and improve student learning. The strategies include providing multiple examples and explanations; uncovering and addressing student misconceptions; frequent low-stakes testing; assessing student learning; and distributed practice. The paper provides guidelines for how AI can support each strategy, and discusses both the promises and perils of this approach, arguing that AI may act as a “force multiplier” for instructors if implemented cautiously and thoughtfully in service of evidence-based teaching practices.

**Keywords:** AI, GPT4, ChatGPT, Learning

**Suggested Citation:**

**Cambridge Schools Conference, March 2024**  
Effective communication: from competence to confidence

# Cambridge Schools AI usage

Using AI tools to teach pupils in its use

Manage data and generate reports

Using AI tools to train teachers in its use

Generate model texts and questions

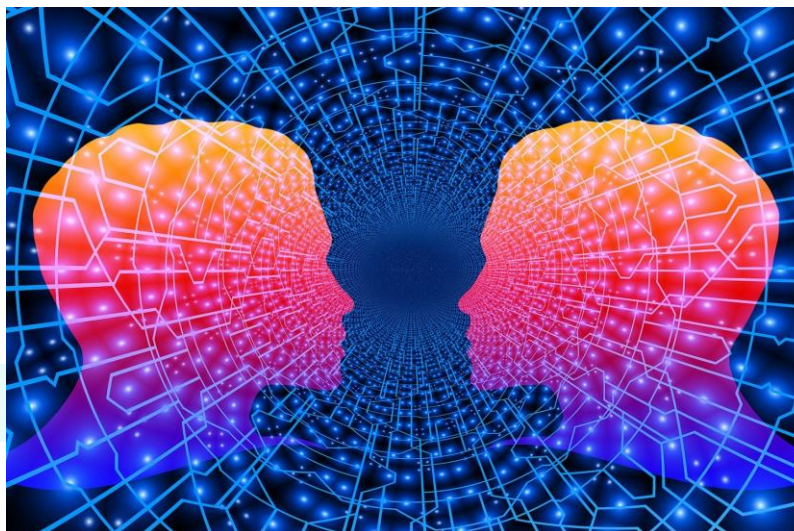
Design research and revision notes

Create quizzes and tests

Using Gen AI created simulations

Create personalised feedback for pupils

Create personalised lesson plans



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Design and organise learning materials

# Immediate actions for a school

## 1. Define an AI strategy

Define an AI strategy to create value in education and give teachers security in how to approach AI - Microsoft Training

## 2. Invest in staff

Give teachers time to explore the potential of AI in developing tools such as Microsoft's Co-pilot

## 3. Identify the benefits

Identify how AI can benefit/support the whole of the teaching, learning and assessment ecosystem

## 4. Consider the use of an LLM

A Large Language Model for your school with help to manage access to open AI applications, like ChatGPT and place controls on the content students can access

**Remember, AI  
is here to  
augment and  
support, not to  
replace!**

# Useful references for AI and education (1)



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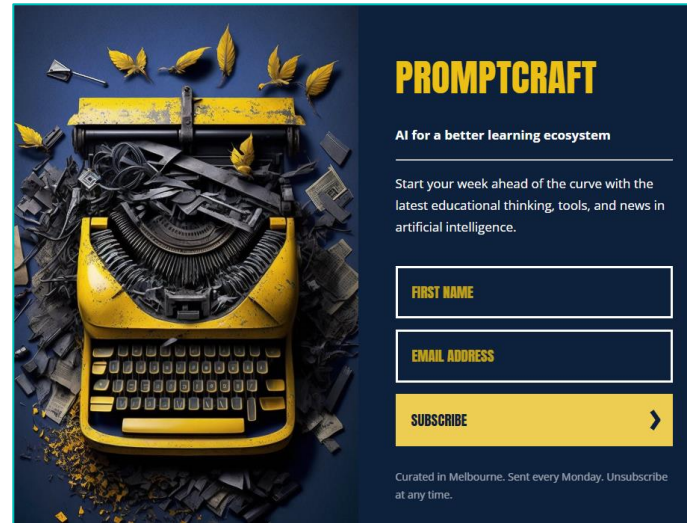
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## Artificial Intelligence and the Future of Teaching and Learning

The U.S. Department of Education Office of Educational Technology's new policy report, **Artificial Intelligence and the Future of Teaching and Learning: Insights and Recommendations**, addresses the clear need for sharing knowledge, engaging educators, and refining technology plans and policies for artificial intelligence (AI) use in education. The report describes AI as a rapidly-advancing set of technologies for recognizing patterns in data and automating actions, and guides educators in understanding what these emerging technologies can do to advance educational goals—while evaluating and limiting key risks.

Download

Core Messages



## PROMPTCRAFT

AI for a better learning ecosystem

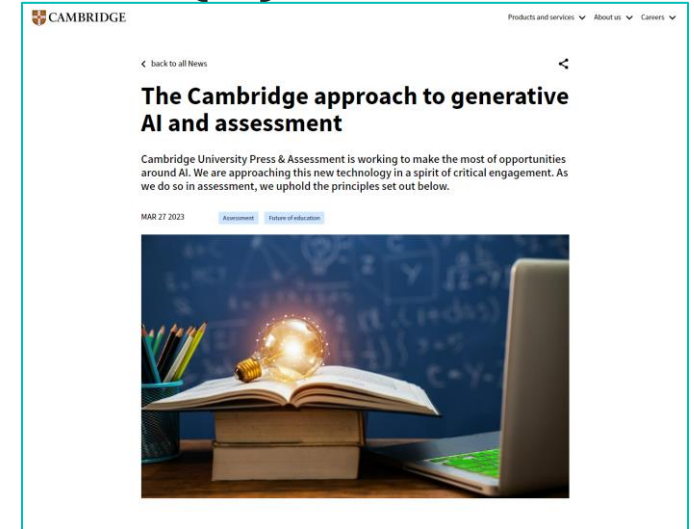
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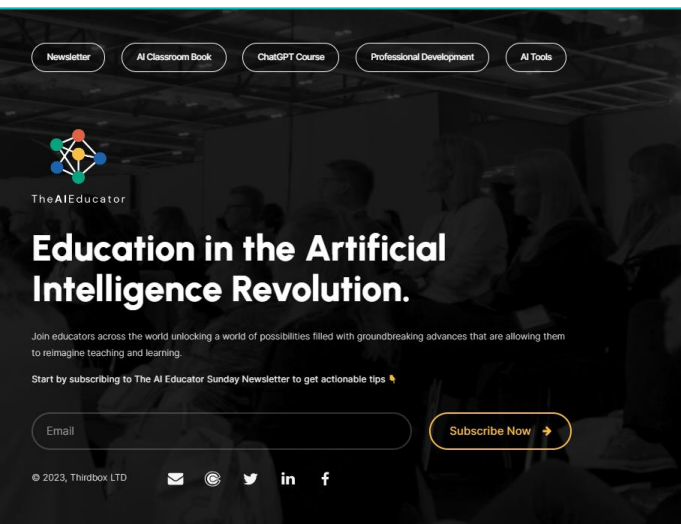


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## The Cambridge approach to generative AI and assessment

Cambridge University Press & Assessment is working to make the most of opportunities around AI. We are approaching this new technology in a spirit of critical engagement. As we do so in assessment, we uphold the principles set out below.

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Newsletter AI Classroom Book ChatGPT Course Professional Development AI Tools

## Education in the Artificial Intelligence Revolution.

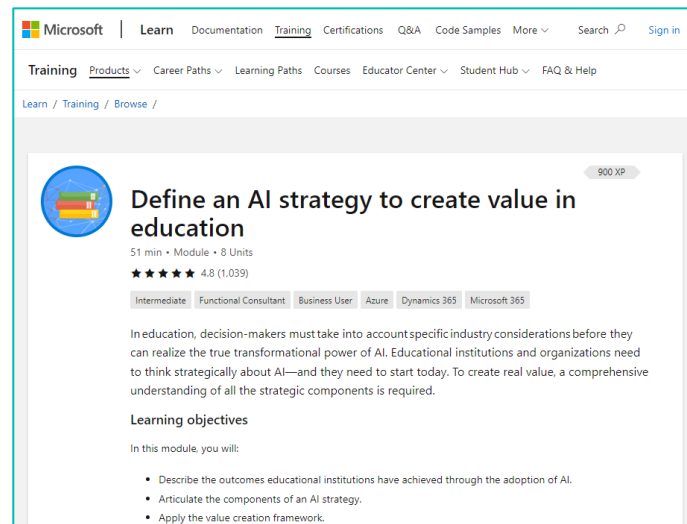
Join educators across the world unlocking a world of possibilities filled with groundbreaking advances that are allowing them to reimagine teaching and learning.

Start by subscribing to The AI Educator Sunday Newsletter to get actionable tips

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## Define an AI strategy to create value in education

51 min • Module • 8 Units

★★★★★ 4.8 (1,039)

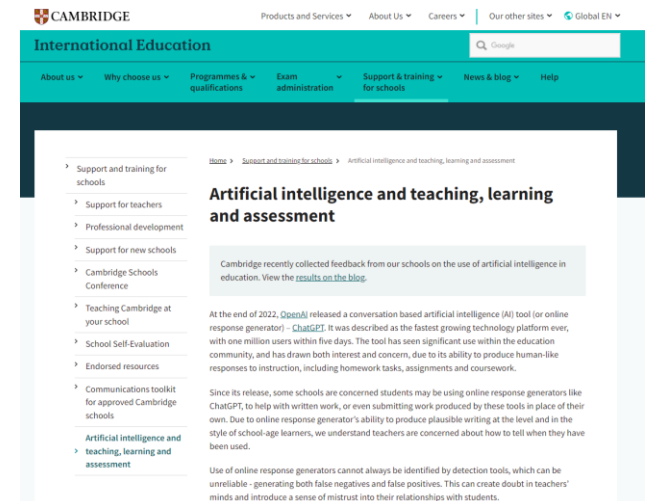
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In education, decision-makers must take into account specific industry considerations before they can realize the true transformational power of AI. Educational institutions and organizations need to think strategically about AI—and they need to start today. To create real value, a comprehensive understanding of all the strategic components is required.

### Learning objectives

In this module, you will:

- Describe the outcomes educational institutions have achieved through the adoption of AI.
- Articulate the components of an AI strategy.
- Apply the value creation framework.



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## International Education

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### Artificial intelligence and teaching, learning and assessment

Cambridge recently collected feedback from our schools on the use of artificial intelligence in education. View the [results on the blog](#).

At the end of 2022, [OpenAI](#) released a conversation based artificial intelligence (AI) tool (or online response generator) - [ChatGPT](#). It was described as the fastest growing technology platform ever, with one million users within five days. The tool has seen significant use within the education community, and has drawn both interest and concern, due to its ability to produce human-like responses to instruction, including homework tasks, assignments and coursework.

Since its release, some schools are concerned students may be using online response generators like ChatGPT, to help with written work, or even submitting work produced by these tools in place of their own. Due to online response generator's ability to produce plausible writing at the level and in the style of school-age learners, we understand teachers are concerned about how to tell when they have been used.

Use of online response generators cannot always be identified by detection tools, which can be unreliable - generating both false negatives and false positives. This can create doubt in teachers' minds and introduce a sense of mistrust into their relationships with students.

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 Effective communication: from competence to confidence

# Useful references for AI and education (2)

The U.S. Department of Education Office of Educational Technology's new policy report, **AI and the Future of Teaching and Learning: Insights and Recommendations**

<https://tech.ed.gov/ai-future-of-teaching-and-learning/>

The AI Educator - <https://theaieducator.io/>

Microsoft Training – Define an AI strategy to create value in education

<https://learn.microsoft.com/en-us/training/modules/ai-strategy-in-education/>

The Cambridge approach to generative AI and assessment

<https://www.cambridge.org/news-and-insights/news/The-Cambridge-approach-to-generative-AI-and-assessment>

Cambridge International - Artificial intelligence and teaching, learning and assessment

<https://www.cambridgeinternational.org/support-and-training-for-schools/artificial-intelligence/>

Preventing plagiarism - guidance for teachers

<https://www.cambridgeinternational.org/support-and-training-for-schools/support-for-teachers/teaching-and-assessment/plagiarism/#online-response-generators>

# Useful references for AI and education (3)

## Prompts

Promptcraft - <https://edte.ch/blog/promptcraft/?v=3a1ed7090bfa>

<https://www.herfteducator.com/>

<https://www.helloteacherlady.com/blog/2023/3/50-time-saving-chatgpt-prompts-for-teachers>

<https://alicekeeler.com/2023/03/09/100-prompts-for-teachers-to-ask-chatgpt/>

<https://edte.ch/blog/2023/01/22/create-framework/?v=3a1ed7090bfa>

<https://www.teachingchannel.com/k12-hub/blog/50-chat-gpt-prompts-for-teachers/>

<https://www.bookwidgets.com/blog/2023/05/15-powerful-chatgpt-prompts-to-create-interactive-lesson-activities-in-no-time>

## Structuring and Scaffolding

<https://guides.library.uq.edu.au/referencing/chatgpt-and-generative-ai-tools>

# Useful references for AI and education (4)

Ethan Mollick's blog: <https://www.oneusefulthing.org/>

Using AI to Implement Effective Teaching Strategies in Classrooms: Five Strategies, Including Prompts (Mollick and Mollick)

[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4391243](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4391243)

Assigning AI: Seven Approaches for Students, with Prompts (Mollick and Mollick)

[https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4475995&utm\\_source=substack&utm\\_medium=email](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4475995&utm_source=substack&utm_medium=email)



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