



CAMBRIDGE

Getting started with AI in the Classroom

Niall McNulty, Data, Analytics and AI

Rachel Logan, Insight, Ideation and Impact

Andrew Field, Insight, Ideation and Impact

Laura Kahwati, Education Futures and Thought Leadership

Tuesday 11th March 13:00

Housekeeping

- Microphones & cameras off.
- Use the Q&A function in the toolbar to send us your questions.
- Like the questions you want answered (we will prioritise those with the most ‘likes’).
- Q&A session will be at the end of the webinar.



Time	Item	Speaker(s)
13:00 – 13:07	Housekeeping, introduction and starter activity	Rachel
13:07 – 13:10	AI in the classroom – Cambridge's approach and latest guidance	Laura
13:10 – 13:16	The Importance of AI Literacy for Teachers	Niall
13:16 – 13: 22	What do Cambridge teachers think?	Rachel
13:22 – 13:27	What does this mean for your Cambridge classroom?	Andrew
13:27 – 13:40	Getting started with AI in the classroom: What's inside the guide?	Laura
13:40 – 13:45	Review	Andrew
13:45 – 14:00	Questions and sharing the link	All

Starter activity

Open the chat box and send a message to everyone to say what town or city you are dialling in from today.

- In the chat: how you are feeling and what you last ate, so for me, I would put optimistic fried egg
- Quick poll
- How are you feeling about AI in the classroom today?



09:10 – 09:

AI in education: empowering not replacing



People-focused

- **Teachers are the most important element** of delivering a rounded education. We are **working with our community** when exploring and using AI.
- Our focus remains on using AI to **empower our teachers** and learners in order to **elevate learning opportunities**.
- AI should **not replace vital skills** such as creativity, critical thinking and social and emotional awareness.





Learning about AI

- Together, we can help our learners to use and interact with AI in a **safe, responsible** and **useful** way.
- We can think of this as helping our learners and teachers to become **AI literate** – preparing them for the years ahead.
- For example, we can make expectations clear about when and why we are using AI and encourage fact-checking.





AI for increasing educational impact



- There are challenges and concerns around AI that, with the right support, we can navigate and overcome.
- AI has the potential to transform education by making learning more personalised, efficient and accessible.
- By starting small, using AI to automate tasks and focusing on personalised learning, teachers can add to their students' educational experiences.
- With the right tools and knowledge, AI can become an invaluable resource in your teaching toolkit, helping you to deliver lessons that are more engaging and effective than ever before.

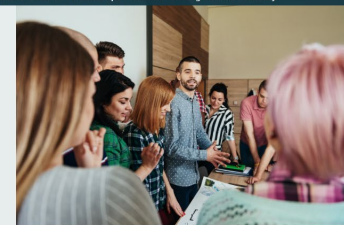
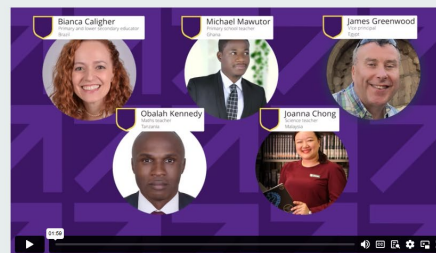
Our new guide: Getting started with AI in the classroom

- Introduces and develops key areas of teaching practice.
- Links research to what happens in the classroom.
- Includes practical ideas to help you get started.
- Developed with members of this community.



This 'Getting started with' resource aims to help you understand AI and its benefits and how you can use it practically in the classroom, regardless of your level of technological expertise, while being mindful of some of the challenges that using AI in education may bring. The additional videos throughout this guide can be used as starting points for meaningful discussions in your own context.

Watch the video below to hear some teacher perspectives about using AI:



Practical tips for teachers

AI may seem complex, but including it in your teaching doesn't have to be overwhelming. Always remember that teaching and learning practices should lead the technology, not the other way round, and that teaching is often better without technology. This represents the real world, where some situations need technology and many do not.

With Gen AI, the opportunities for scaffolding, adapting and personalising learning are greater than ever before at every stage of learning. It has the potential to enhance and create dynamic ways of working, keeping the core of effective learning and teaching at the heart of education

Here are some practical ideas, tools and specific examples to get you started.

1. Start small

Beginning with one or two AI tools that could help with your current teaching goals is a good way to introduce AI gradually into your classroom. Choose tools that are simple to use and that directly meet a need, such as marking assessments or providing instant feedback on language skills.

09:10 – 09:16

The Importance of AI Literacy for Teachers

What is Artificial Intelligence?

Computer systems that simulate human intelligence by:

- Recognising patterns in data and behaviour
- Learning from information and making predictions
- Generating new content based on learned patterns
- Solving problems and adapting to new situations

Why AI Literacy Matters?

Key considerations for schools:

- Develop responsible AI usage policies and guidelines
- Ensure equitable access and addressing digital divides
- Create effective integration strategies for teaching and learning
- Prepare students for an AI-enhanced future workforce



Image generated in Midjourney with prompt "learning with technology, illustration"

The Evolution of AI

- 1950s: AI emerges as an academic field focused on creating intelligent machines
- 1980s: Machine Learning develops, enabling computers to improve through experience
- 2010s: Deep Learning transforms the field with brain-inspired neural networks
- 2020s: Large Language Models provide sophisticated understanding and generation capabilities

What can Gen AI Create?

- Essays, stories, code and other written content
- Images, graphics and design elements
- Video content and animations
- Music, speech and sound effects

Key Concerns for Educators

- Limited transparency in AI processes
- Potential for perpetuating biases from training data
- Risk of generating and spreading misinformation
- Student overreliance and academic integrity issues

AI Literacy For Teachers and Students

Competencies

- Understanding fundamentals of how AI systems function and make decisions
- Developing skills to use AI tools effectively
- Recognising societal and ethical implications of AI in education
- Identifying potential benefits while mitigating risks

Integration Approach

AI should complement existing educational frameworks in your teaching, such as:

- Active learning
- Assessment for learning
- Metacognition
- Inclusive education principles

Remember: AI is not a standalone solution—it's a tool within your teaching practice!

Best Practices for AI in Education

For Teaching:

- Verify all AI-generated content
- Be mindful of knowledge cutoff dates
- Ensure AI-created resources align with curriculum standards
- Check for potential biases

For Students:

- Teach critical evaluation of AI outputs
- Encourage cross-referencing with reliable academic sources (textbooks!)
- Explain appropriate vs inappropriate AI use

Data Protection:

- Limit sharing of sensitive or personal information with AI systems
- Review terms of service for educational AI applications
- Comply with national data privacy guidelines such as GDPR, POPI, COPPA

Teaching with and about AI

Teaching *with* AI

Practical integration where AI is a tool to:

- Support teachers in planning, assessment and administrative tasks
- Enhance student learning through personalised guidance and feedback
- Assist school leaders with operations and management systems

Teaching *about* AI

Understanding AI fundamentals through:

- Core computer science and data science principles
- Cross-disciplinary connections across mathematics, science and social studies
- Critical examination of AI's societal impact and ethical implications



Image generated in Midjourney with prompt “cute robot holding a balloon”

AI Capabilities and Limitations

Strengths:

- Writing clear, grammatically correct text
- Explaining complex topics in accessible language
- Generating creative ideas and content

Limitations:

- Performing complex calculations
- Making appropriate ethical judgements
- Maintaining factual accuracy (AI hallucinations)

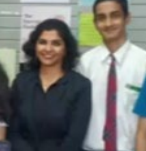
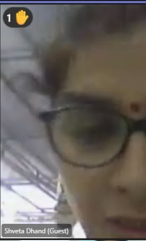
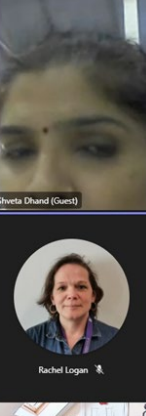
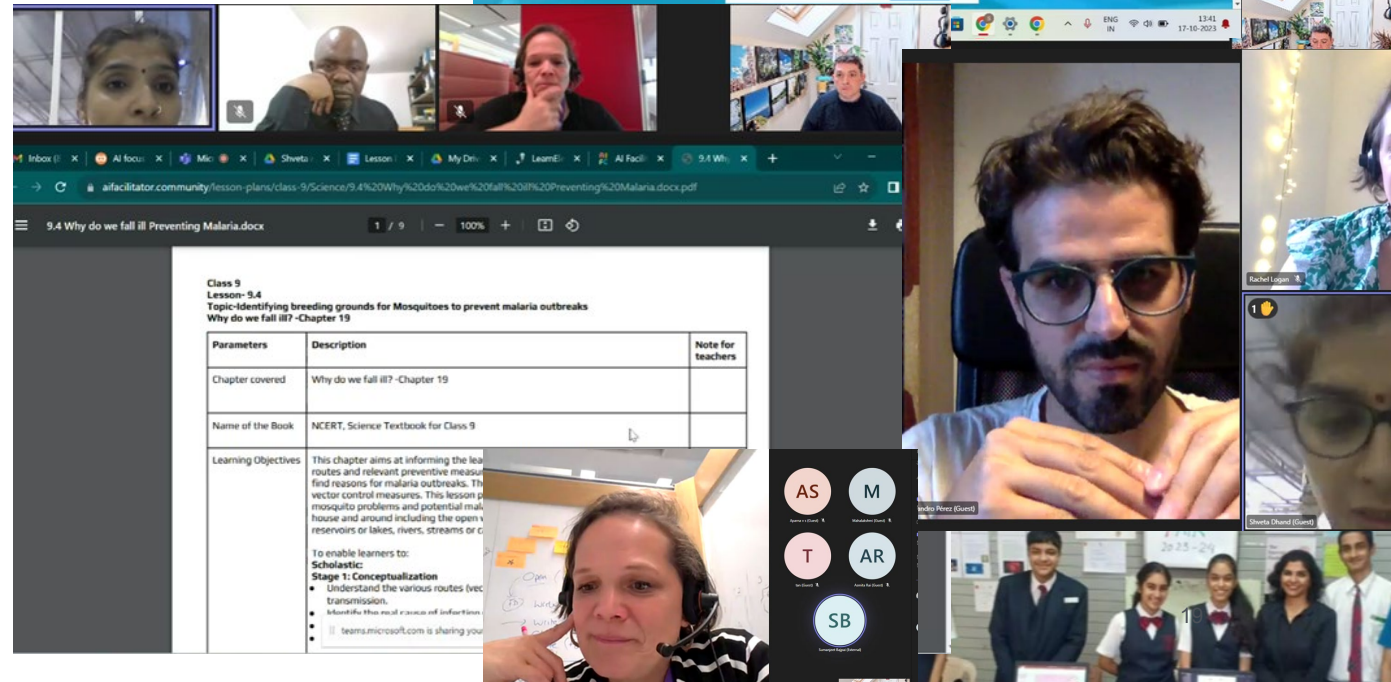
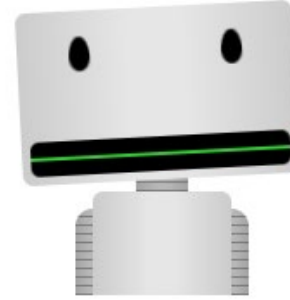
What do Cambridge teachers think?

What do Cambridge teachers think?

We've been listening to our teachers regularly using focus groups, interviews, surveys, conferences and school visits.

We've heard that where there was concern about Gen AI, now there's interest in making it work for teachers.

In our last survey with a group of 500 Cambridge teachers, over 59% told us they were using Chat GPT to help with their admin, from lesson planning, to checking emails.

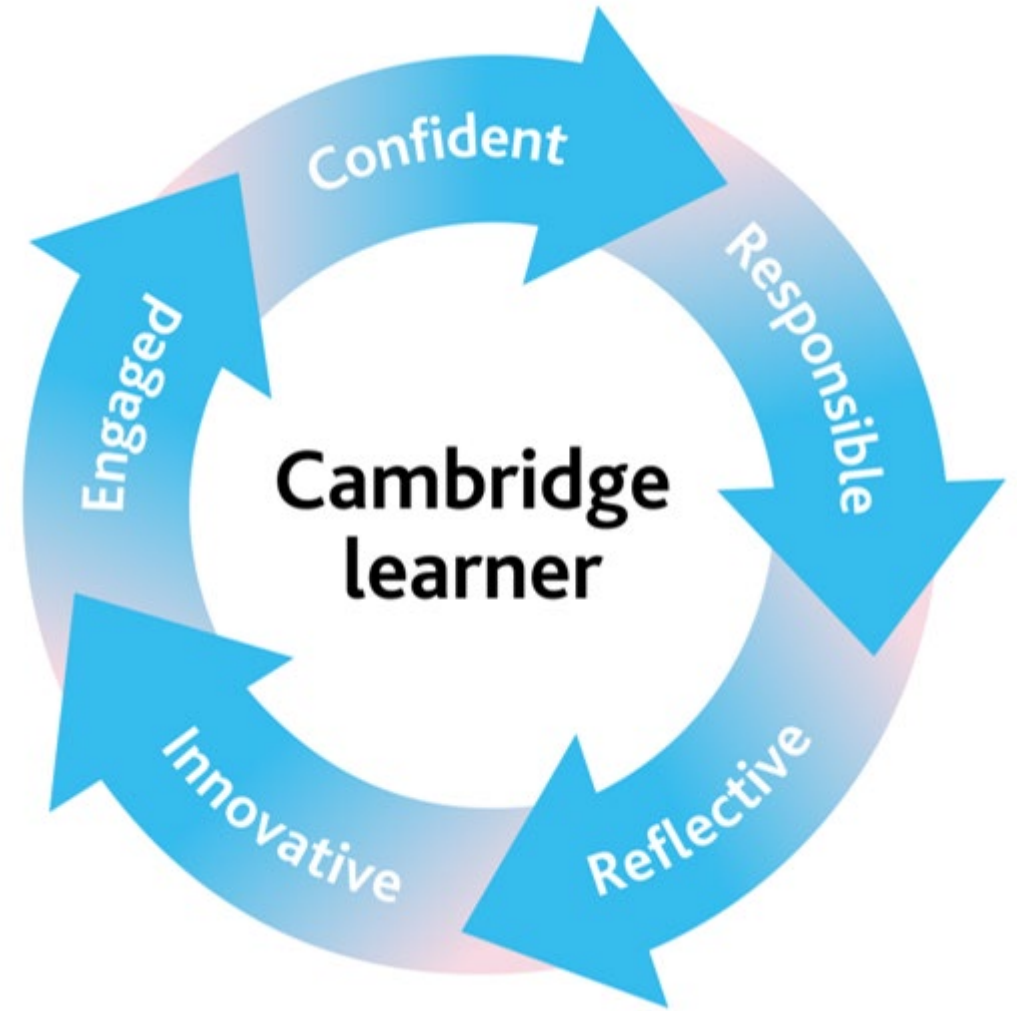


Listen to our teacher community

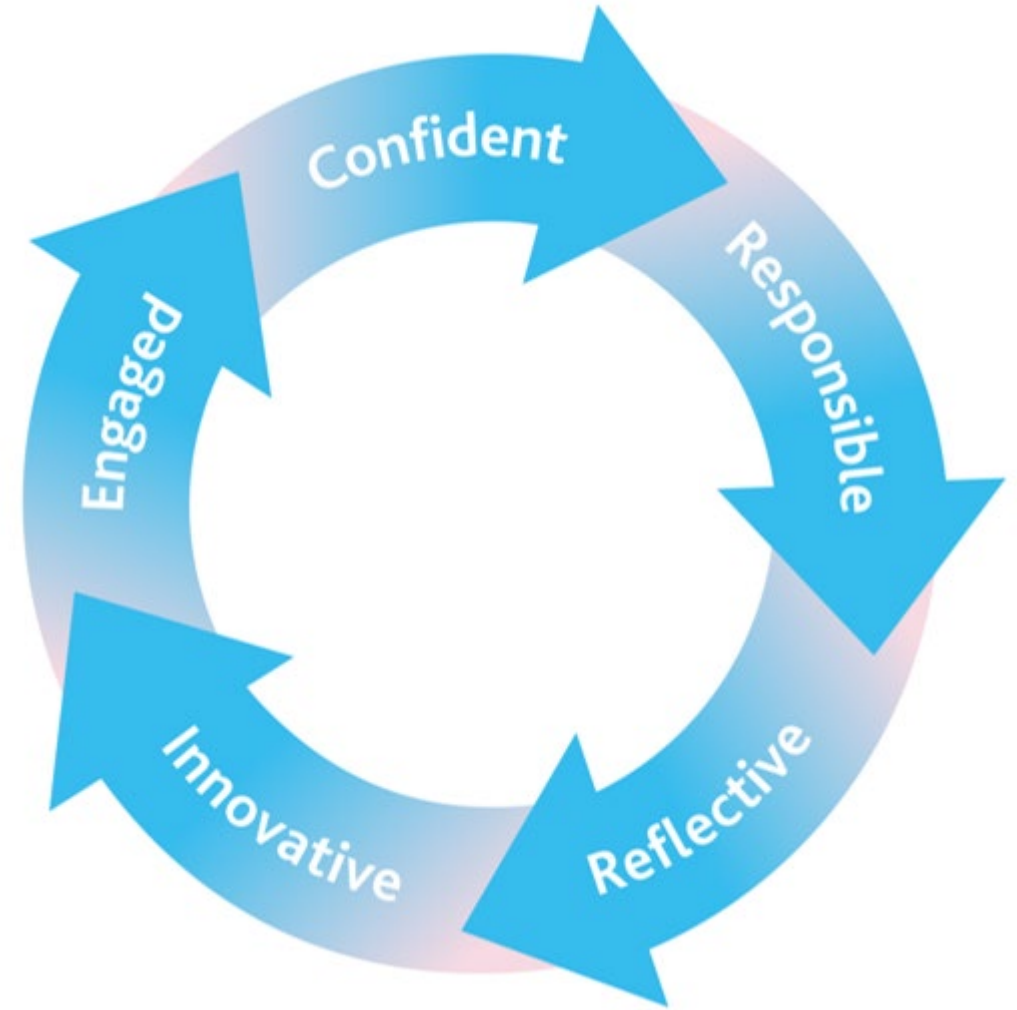


What does this mean for your Cambridge classroom?

“Our Cambridge learner attributes encourage students to become confident, responsible, reflective, innovative and engaged – with these attributes Cambridge learners are ready for the world.”



- Confident
- Responsible
- Reflective
- Innovative
- Engaged



Haven't we been here before?



What are the benefits of AI in the classroom?

Getting started with AI in the classroom

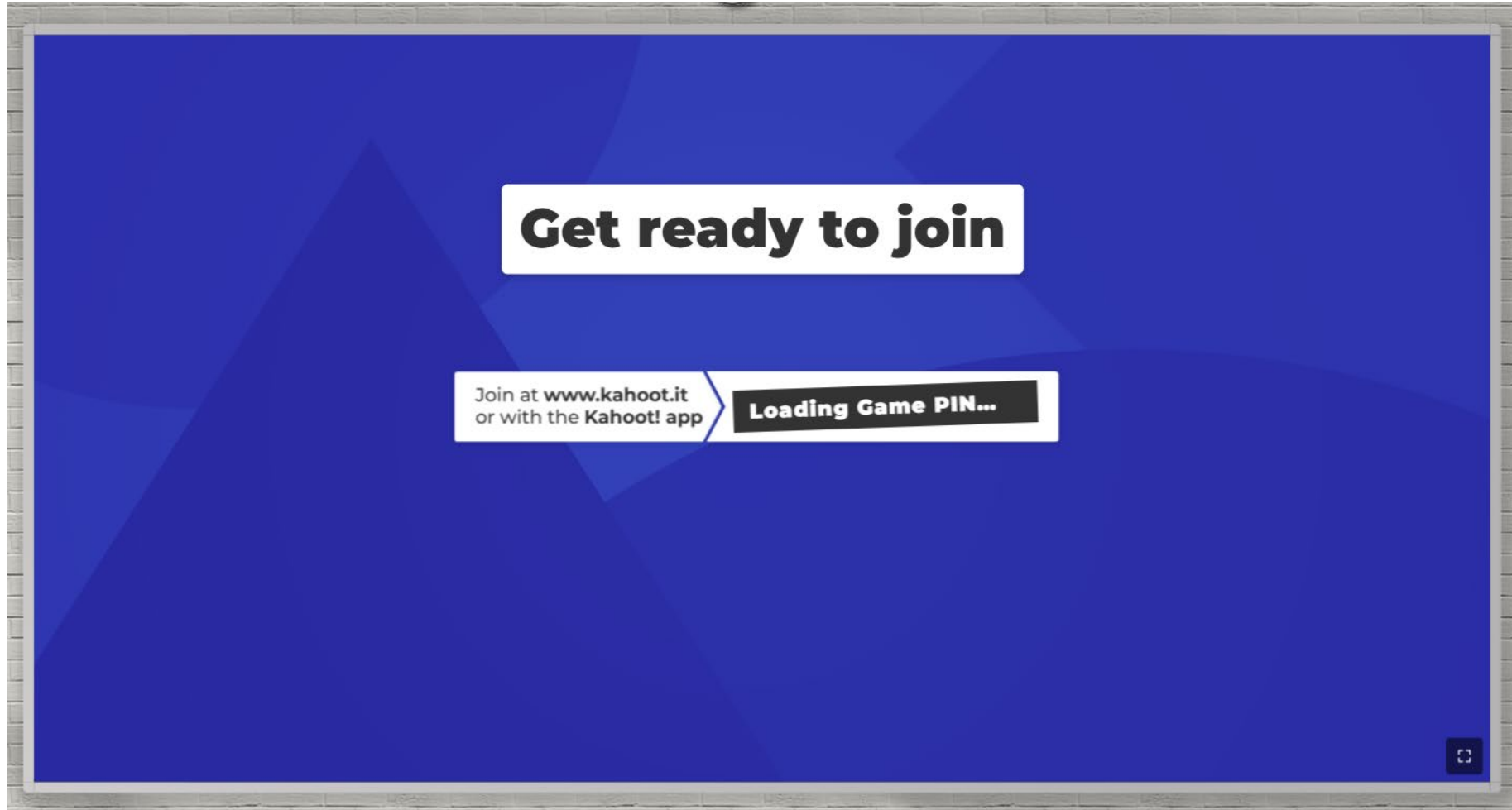
International Education

[Back to top](#) [Introduction](#) [What is AI?](#) [What does the research say?](#) [What are the benefits?](#) [What are some concerns?](#) [Practical tips](#) [Checklist](#) [Finding out more](#) [Glossary](#)

Getting started with AI in the Classroom



Review





CAMBRIDGE

Any questions?

We will greatly appreciate any feedback from the survey provided.



CAMBRIDGE

Thank you!

We will greatly appreciate any feedback from the survey provided.



CAMBRIDGE

Get in touch!

+00 (0) 000 000 000

sample@sample.com

[cambridge.org/internationaleducation](https://www.cambridge.org/internationaleducation)

© Cambridge University Press & Assessment 2025

