

Camden Case Studies: AI in Education



by Joysy John MBE

July 2025







Unique partnership
for teaching
Computer Science at
Parliament Hill
School

Enrichment clubs and trips

Industry and University Engagement



Want to be a future leader in tech?
Join the Digital Leaders Club!

- Connect with peers with shared interests in digital innovation.
- Learn from technology professionals ready to help you succeed.
- Get a behind-the-scenes look at what working in tech is like.
- Create your Parli Podcast, website, game, or learn about AI
- Lead trips and projects to build important skills

Digital Leaders Club

Lead Teachers: Ms Urquhart, Ms John

Who: Year 7 and 8

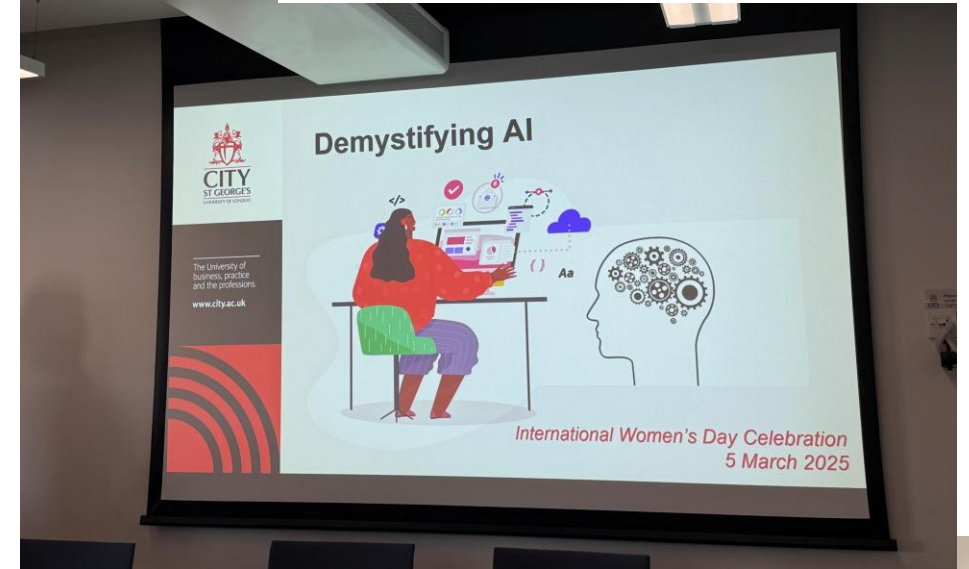
When: Tuesday, 12.30pm - 1pm

Where: K23

Year 9 and 10

Wednesday, 1.30pm - 2pm

K23



**Parliament Hill School
After School Club**



AI Projects with Camden Learning

AI Policy

Draft model AI policy to support teaching with and about AI

Case Studies

Identify and create case studies of AI use across primary, secondary and special schools

Training

Deliver practical, online training to help teachers implement and use AI

Digital Tools at Teatime

Awareness

Present at:

Governors Conference
(May 2025)

Camden Conversations
(July 2025)



Accelerating pace of AI adoption

Will AI Widen the Digital Divide?

Old Digital Divide

Computers in Schools,
High Speed Internet,
1:1 devices...



New Digital Divide

Who is empowered
to learn with, for, and
about AI

Potential for AI to enhance inclusion but also exacerbate inequalities.
How can we ensure equitable access to AI resources?

AI adds a new dimension to safeguarding



Preventing online harm and abuse

Learn about the risks children and young people face online, the policies and procedures you need, what the law says and what steps you need to take to help keep them safe.

“Everyone has to become more aware of Gen AI and its harmful impact.”

Voice of Online Youth Participant



Artificial Intelligence

Using ChatGPT can cut lesson planning by 31% – EEF study

Randomised control trial found teachers told to use the generative AI cut 25.3 minutes from their planning time



Freddie Whittaker

12 Dec 2024, 5:00

[More from this author](#)



[See discussion](#)





Artificial Intelligence

£3m government AI ‘content store’ to help teachers plan lessons

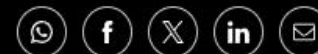
But scheme will not see schools receive direct funding to help them
adopt new technology



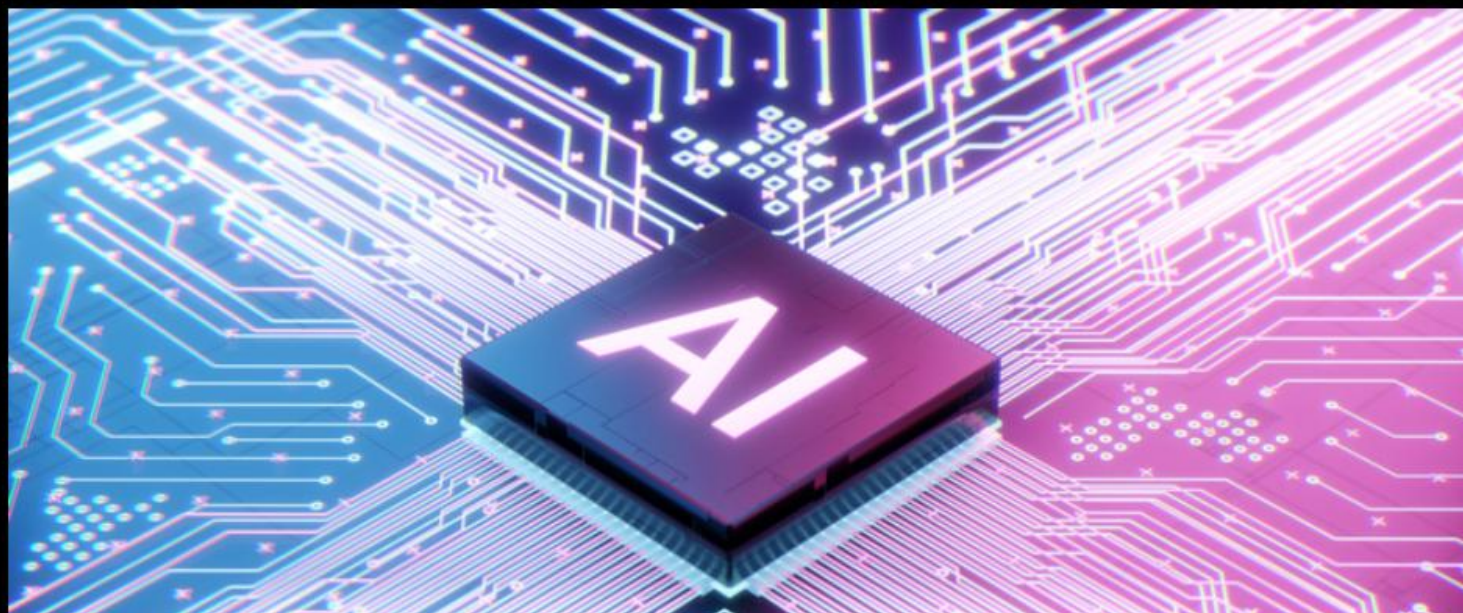
Lucas Cumiskey

28 Aug 2024, 0:01

[More from this author](#)



[See discussion](#)



Integrating AI in Education



Curriculum Integration

Incorporating AI tools into educational content

Enhanced Teaching Methods

Improving teaching techniques with AI

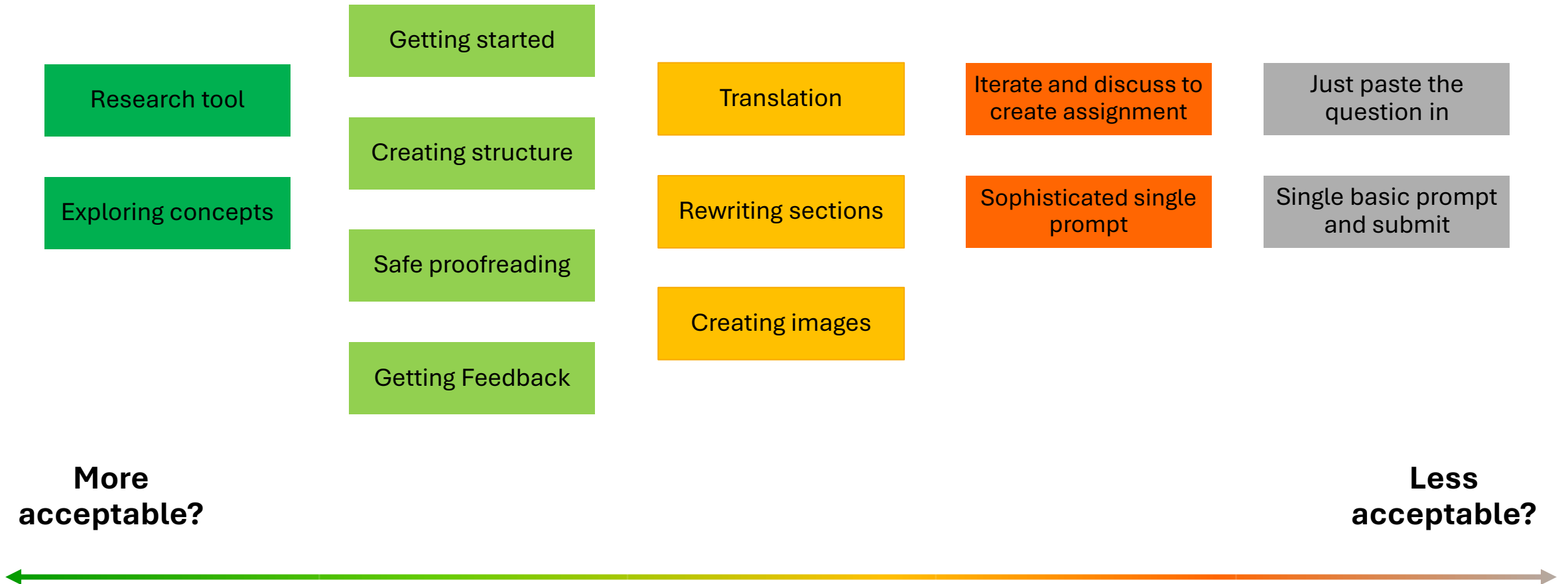
Improved Learning Experiences

Enhancing student engagement with AI

Future-Ready Students

Preparing students for AI-driven careers

2025: Students are using AI



Teachers are using AI for

Lesson
Planning

Lesson
Adaptation

Resource
Creation

Assessment
Creation

Marking and
Feedback

Report
Writing

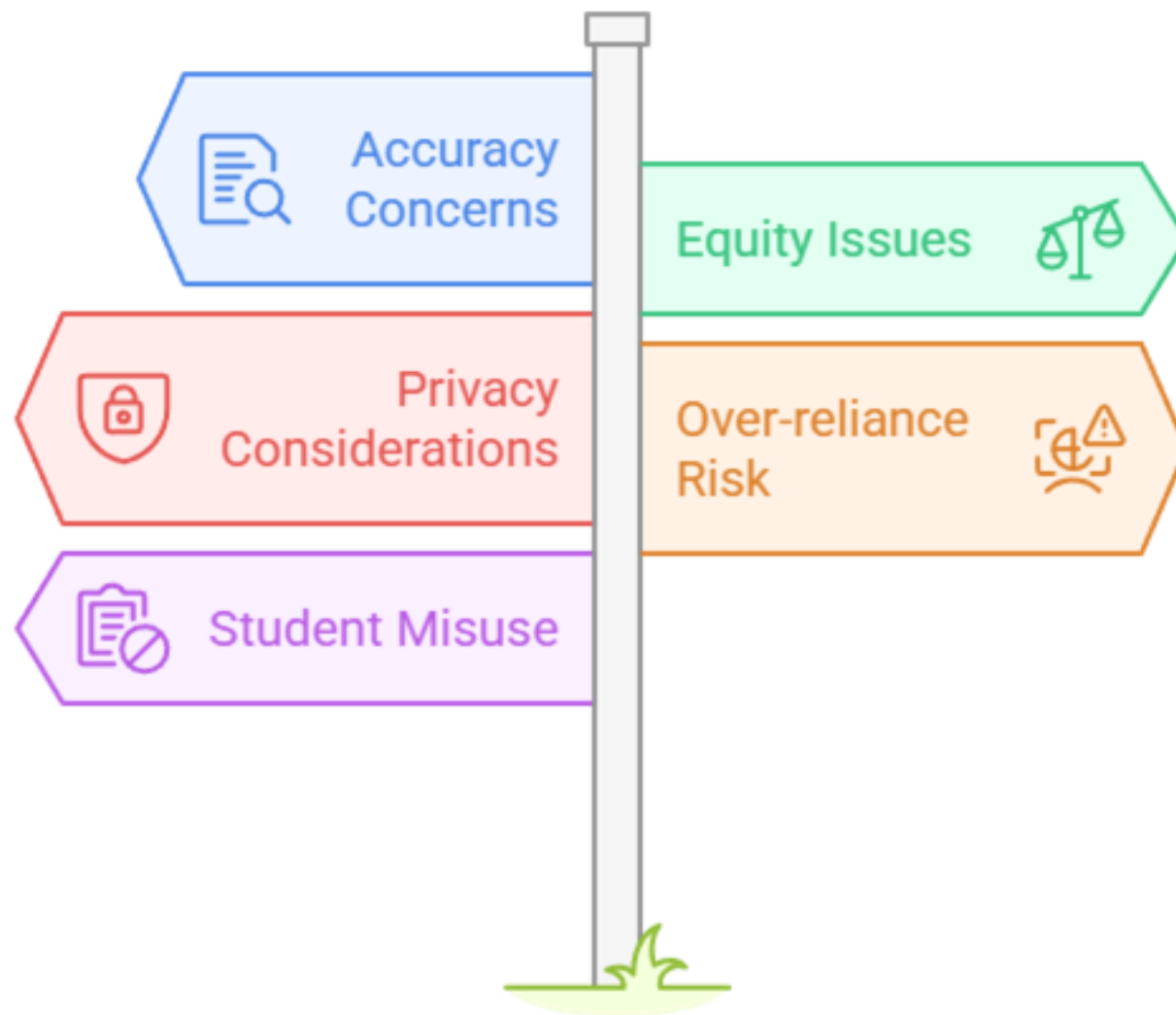
Admin Tasks

Data
Analysis

SEN Support

AI Literacy

How should educators address AI integration challenges?



Student Frustrations

01

Generic Feedback:

"Sometimes the comments on my work are very general, and I don't know how to use them to get better."

02

Waiting for Grades: "It can take a long time to get my grades back, and by then, we've already moved on to a new topic."

03

Boring Lessons: "I zone out when the lessons are not relevant to my interests and context."

Teacher Frustrations



Time Constraints: "I spend hours every week on planning and grading. I need solutions that are effective but don't add to my already packed schedule."



Tool Overload: "There are so many AI tools out there. It's overwhelming to figure out which ones are genuinely useful and safe for my students."



Data Privacy: "I'm concerned about the privacy of my students' data when using third-party AI platforms."



Lack of Training: "I see the potential of AI, but I haven't received formal training on how to integrate it effectively and ethically into my teaching."

School Leader Frustrations



Budgetary Constraints: "Finding the funds for effective AI tools and comprehensive training for all staff is a major challenge."



Resistance to Change: "Some staff members are hesitant to adopt new technologies. I need a clear strategy to manage this change and demonstrate the benefits."



Ensuring Equity: "How do I ensure that the use of AI benefits all students and doesn't widen the existing equity gaps?"



Policy and Governance: "I need to develop clear policies around the ethical and responsible use of AI for everything from lesson planning to student assessment."



How are schools using AI
for lesson planning,
adaptation and admin?



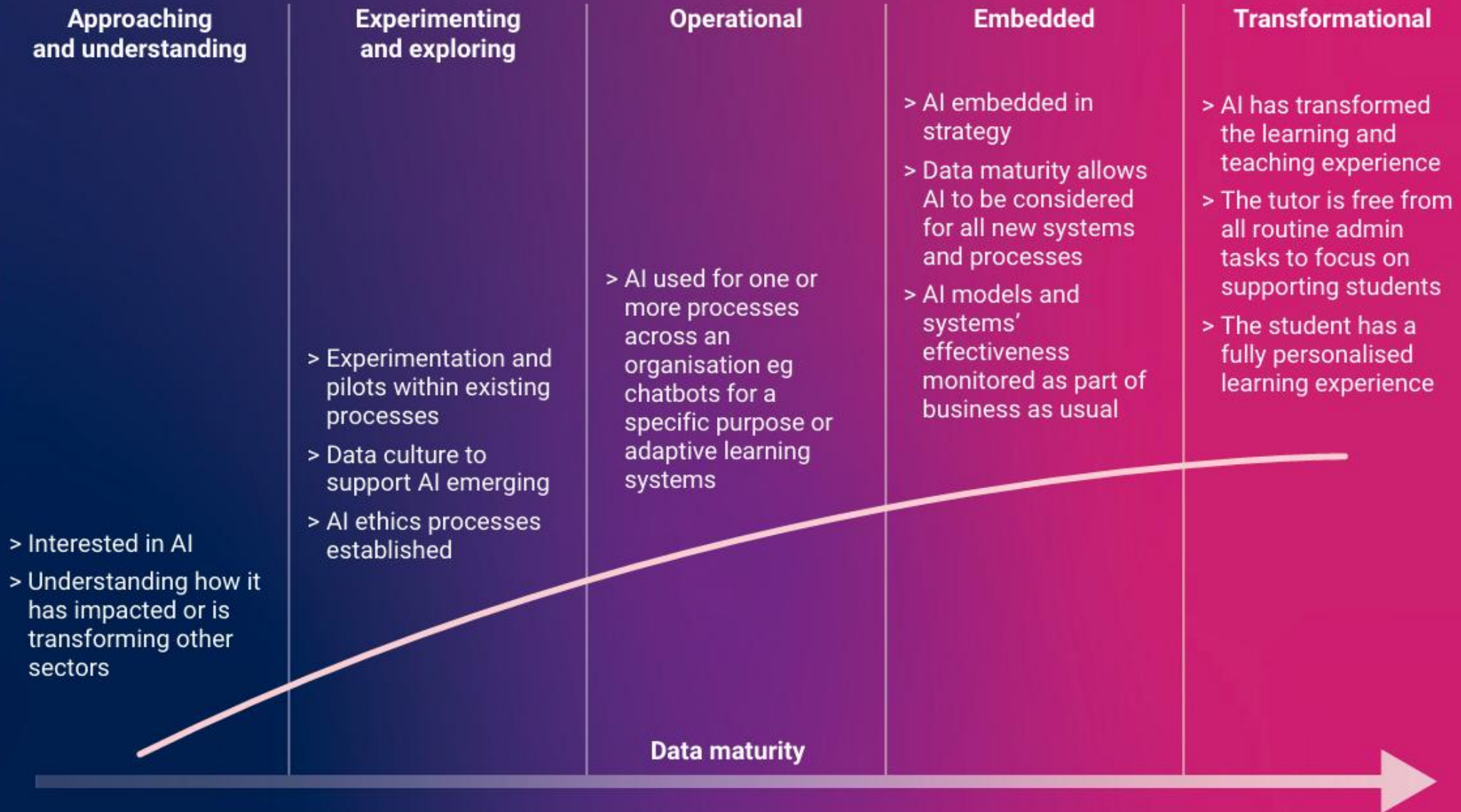
What tools are being used for marking and feedback?



How to Personalise Learning for all?

Where are you on this AI Maturity model?

Adapting existing models for AI maturity to the education sector



Schools in the Case Study

Secondary



Primary

**BRECKNOCK
TORRIANO
FEDERATION**



Special school





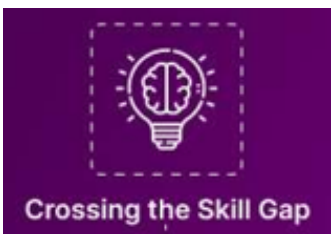
Justin Bioletti
MFL Lead, Computing
Lead

Primary School

STEAM projects

Student AI Literacy

Impact study



Challenge

- STEAM Lesson activity ideas
- Resource Creation
- Personalised Learning & SEND Support

AI Tools Used

- ChatGPT and Gemini as smart text assistants, and **STEAM projects ideas**. Creating short paragraphs, pictures, or generate questions for YouTube videos.
- DALL-E for image generation to support creative projects
- Gamma AI to quickly produce presentations from prompts
- TeachMate for lesson planning and activity generation like quizzes, summaries and model answers

Future Plans

- Encouraging more teachers to go for AI CPD
- Test Air AI tool for English marking and feedback next term
- Participate in Aila EEF Trial on lesson preparation time and resource quality for Key Stage 2 class instruction

Impact

- ✓ Reduced workload for teachers and made the lesson more engaging for students.
- ✓ There is a strong focus on building AI literacy among students and experimentation with AI tools.

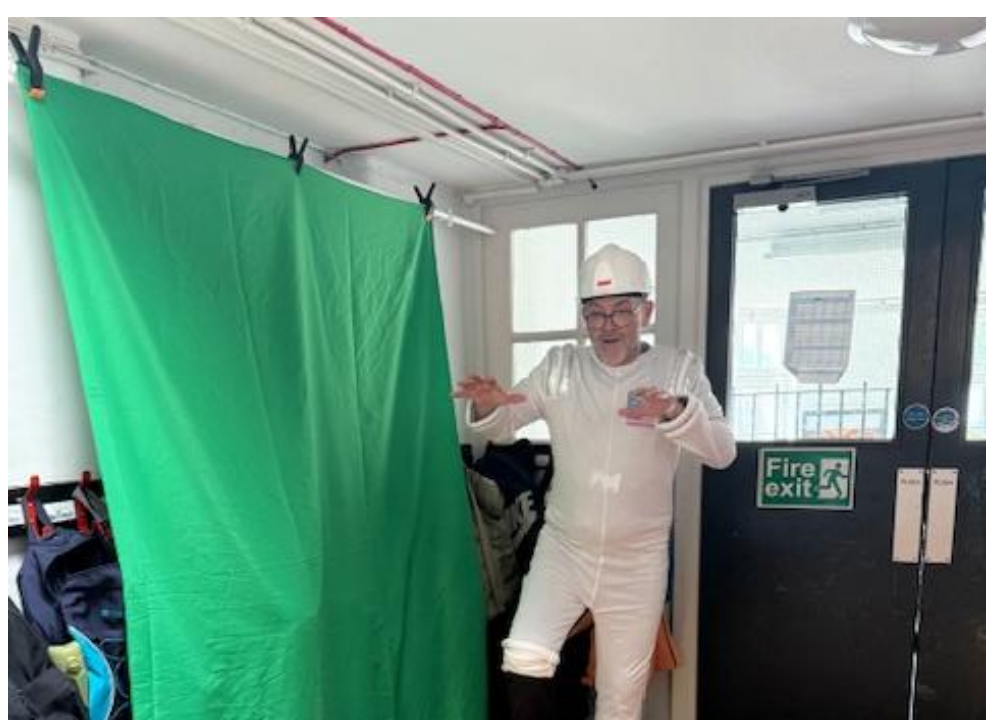
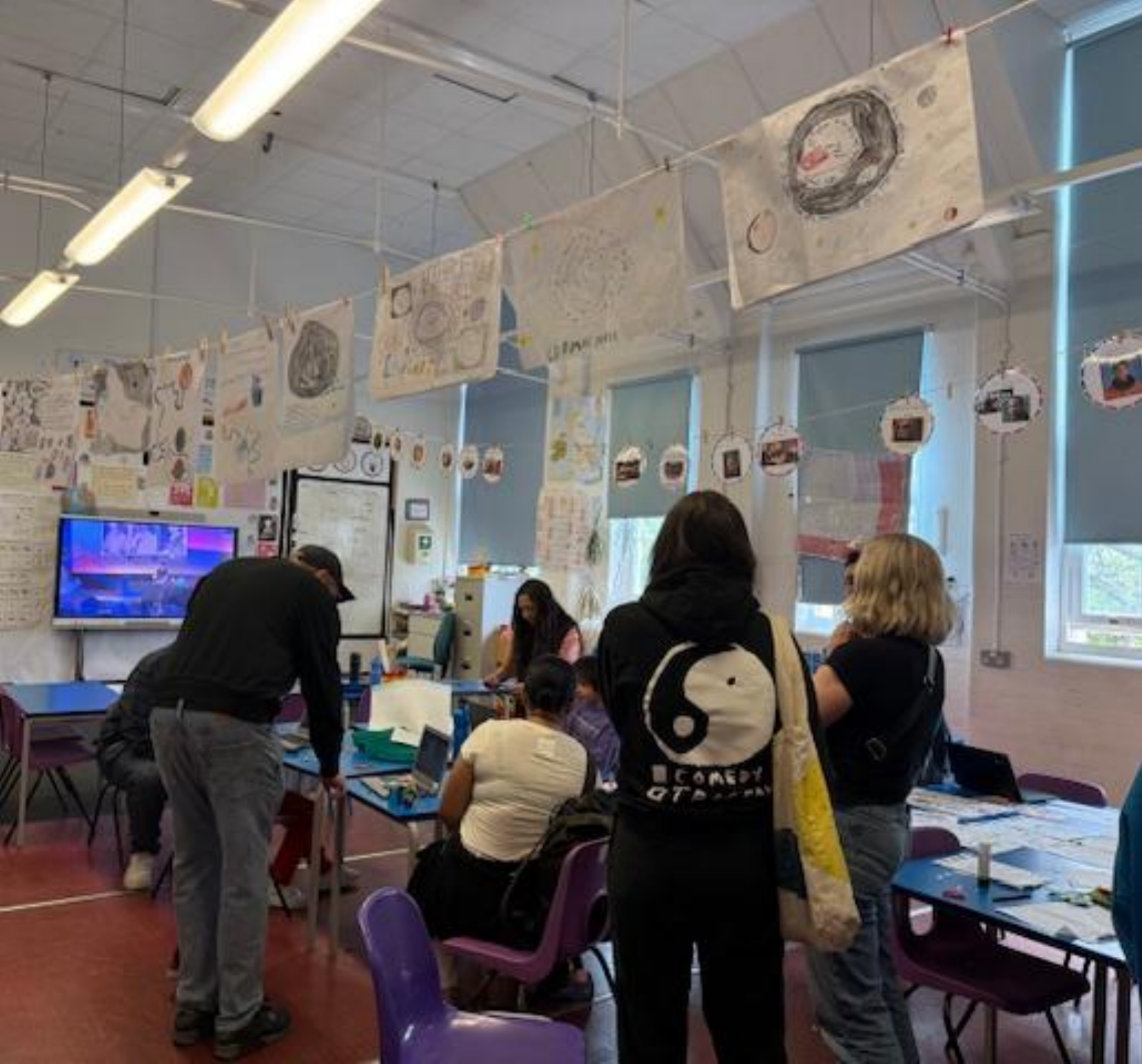


Holly Churchill
Head of School



Helen Bruckdorfer
Executive Headteacher

“It started with Teaching Machine Learning for Kids and using ChatGPT for STEAM project inspiration.”





Taja Essor
Oracy Lead, Year 1 Lead
and Year 2 teacher

Primary School

IEP Summarisation

Quiz, starter activities

Resource Adaptation

Challenge

- Resource Creation
- Adaptation & SEND Support

AI Tools Used

- Gemini for lesson prep, quiz creation, summarising IEP reports
- ChatGPT for summarising research and long reports
- Gamma AI to quickly produce assembly slides

Future Plans

- Encourage more teachers to go for AI CPD and implement tools for lesson planning and admin
- Implement AI as part of school improvement plan
- Share best practices and examples of how AI can be used to save time and make the lesson more engaging

Impact

- ✓ Reduced workload for teachers and made the lesson more engaging for students.



Tom Harper
Online Learning Lead
& Year 2 Teacher

“I’m incredibly excited about the future of AI in schools. It has the potential to personalise learning in new ways and I am keen to see how this will take shape.”

Claude output

After the training, Ms Essor used a combination of AI tools to do some planning for no pens day event for an English lesson.

Here's how she put it together:

- Asked **Gemini** for engaging, no-pens lesson ideas for 6-7 year olds.
- Then, used **Gamma** to quickly generate a Google Slides presentation by copying and pasting one of Gemini's responses.
- Finally, gave **Claude** AI a try to create a worksheet example based on the original Gemini prompt.

◆ You've got it! Engaging Year 2s without pens and paper for English and SPAG is a fantastic way to make learning active and memorable. Here are some interactive lesson ideas focusing on different SPAG concepts, all designed for oral, movement, or manipulative-based learning:

Interactive English & SPAG Lesson Ideas (Year 2, Ages 6-7) - No Pens!

These ideas aim to make grammar, punctuation, and vocabulary come alive through games, movement, and hands-on activities.

1. Sentence Superheroes! (Capital Letters & Full Stops)

- **SPAG Focus:** Capital letters at the start of a sentence, full stops at the end.

Gemini output

Adjectives Charades

Act it out without words!

How to Play:

1. Cut out the cards along the dashed lines
2. Players take turns picking a card
3. Act out the adjective without speaking or making sounds
4. Other players guess the word
5. Have fun being creative with your acting!

BRAVE

WOBBLY

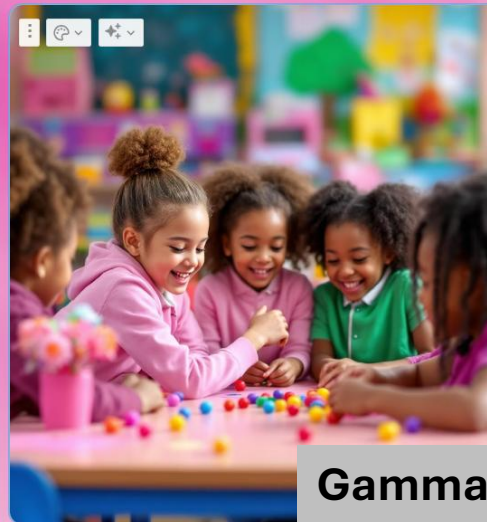
BOUNCY

SPEEDY

SLIMY

SLEEPY

Theme Share Present



Year 2 No pens day Adjective Action Charades!

Get ready for a super-fun game where we use our bodies and faces to show describing words! This game will help us learn all about **adjectives** - those brilliant words that tell us more about people, places and things!

Gamma output



NETLEY
PRIMARY SCHOOL
AND CENTRE FOR AUTISM

 **ROBSON HOUSE**



John Hayes
Executive Headteacher

Special School

SEND

Summarising

Admin tasks

Challenge

- Support all students with significant behavioural, mental health challenges, SEND and those in pupil referral unit
- Reduce time for admin tasks and letters for parents

AI Tool Use

- Gemini for summarising meeting notes and video transcript, turning it into minutes and actions, for brainstorming ideas, letter writing
- Gamma used to quickly produce draft presentations
- Sumo used in music education to show music composition
- ChatGPT for report writing and drafting customised emails

Future Plans

- Complete move to Google platform and ensure all teaching staff have consistent and equitable AI access
- Provide sequenced training program and coaching for teachers
- Experiment with Gemini for writing feedback and for specific classroom challenges

Impact

- Early days of piloting AI tools for tailoring strategies and resources to students with special educational needs and disabilities (SEND).
- Reduced workload in admin tasks and report summarising.



Harriet Tomaz-Carter-Merrills
Expressive Arts Lead
Music Teacher at Robson House

[Podcast](#) – AI and Art education

“Teachers need coaching and support to apply AI to their classroom challenges .”



William Lau
Assistant Headteacher
(Learning Technology)

Special School

Assessments

Personalised learning

Digital Strategy

Adaptation

Challenge

- Adapting lesson resources for different learner needs and learning levels
- Support personalised learning and special educational needs in a hospital school

AI Tools Used

- Claude and DeepSeek for generating shadow exam questions and answers
- Gemini and various LLMs for creating worksheet for a specific skill
- ChatGPT as a personal tutor to deepen understanding for students providing rich, interactive explanations
- DeepSeek for making personalised learning checklists to support revision
- ChatGPT for admin tasks like summarising a podcast transcript, refining tech strategic plan

Future Plans

- Equitable access, digitally safe and AI literate students
- Train teachers and TAs on AI tools and implement the digital strategy
- Audit and automate administrative processes using integrated digital solutions
- Provide digital skills training for all administrative and support staff

Impact

- ✓ This combination of tools has significantly reduced his workload, allowing more focus on targeted support for students.
- ✓ Improved learner engagement by providing customised practice questions that address each learner's unique challenges.

How to [videos](#)



“LLMs have allowed us to refine our resources and streamline some admin tasks, saving time while also allowing us to personalise learning”

Actions and Impact

Sept 2024– Sept 2026



Highest Priority Projects (12 months)

	Digitally confident and safe students (WL, DV, EA)	Teachers and TAs (WL, DV, EA)	Innovation (WL, NM, BC)	Infrastructure (WL, NM, BC, SGU)	Admin and support (WL, SGU)
	<ol style="list-style-type: none"> Take steps to overcome digital divide Teach pupils about AI and how to use AI safely and responsibly 	<ol style="list-style-type: none"> Review subscriptions to digital services Partner with online tutoring agencies and online schools Train teachers on AI tools to support and enhance teaching and learning 	<ol style="list-style-type: none"> Visits to investigate new tech 360 recordings for self reflection and sharing best practice Develop VR offer 	<ol style="list-style-type: none"> Investigate monitoring and filtering software Switchover from landline to VOIP Laptop and iPad update for schoolrooms 	<ol style="list-style-type: none"> Admin / support skills audit HR , admin, Business manager training

Actions

	<ul style="list-style-type: none"> Develop tech library Train staff on AI tools Partner with 2econdChance, GOSH Charity or other businesses on a laptop donor programme. Use SPF where needed 	<ul style="list-style-type: none"> Online learning page with subscription details Trial online tutoring agency AI Quality mark AI Working Party AI CPD with Educate Ventures / Good Future Foundation AI Implementation Plan 	<ul style="list-style-type: none"> Attend conferences and visit schools to investigate new tech Trial 360 recordings for lessons -> Case studies? 	<ul style="list-style-type: none"> Trial LGfL monitoring solution - SENSO Continue to liaise with Ruth Edmondson (NHS) re: phones Order new laptops for secondary (Nov 2024) and primary (Sept 2025). iPad (Sept 2025) 	<ul style="list-style-type: none"> GDrive tips and tricks for Tues PM or Weds AM training Epic training
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Impact

	Improved digital literacy and accessibility	Improved digital skills of all teachers	Bring the outside world and virtual worlds to our pupils	A manageable, reliable and secure IT infrastructure	Improved digital literacy in admin and support roles
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Dylan Owen
Deputy Headteacher

Secondary School

Lesson planning

Student AI Literacy

Challenge

- Admin workload for teachers
- Lesson planning and resource creation
- Personalised learning & SEND support

AI Tools Used

- ChatGPT for SEND work, including consultations, summarising reports for Individual Education Plans (IEPs), and assisting with High Needs funding applications.
- Sparx Maths, Sparx Reader, and Sparx Science are used for personalised learning.

Future Plans

- Implement AI policy and training for staff
- Continue with practical 'how-to guide' for AI utilisation within the school
- Explore AI for marking and feedback, including constructing questions based on feedback

Impact

- ✓ Reduce administrative workload for teachers, freeing up time for creativity and adapting resources to meet individual learners' needs.
- ✓ Build staff understanding and confidence in how AI can support learners.



Martha Collins
Head of School

“Generative AI tool is being used in lesson planning. It is like “a very fast personal assistant whose work you always need to check”.



Abi Faik
Team leader for History
and Politics

Secondary School

Podcast

Personalised learning

Adaptation

Lesson planning

Challenge

- Lesson adaptation
- Resource Creation
- Personalised Learning

AI Tools Used

- ChatGPT for exam question practice. Students are asked to critique AI-generated essay plans. Make summary sheets tailored to students working below grade 5, helping to scaffold learning
- Notebook LM for generating audio revision podcasts that can be shared with students after downloading
- MagicSchool, Twee used for assignment scaffolding and generating model answers.

Future Plans

- Pilot of No More Marking for comparative judgement in history essay for year 7 planned for Sep 2025
- Continue with AI tool experimentation and building student AI literacy to use these tools safely and responsibly
- SLT is Exploring 1:1 device implementation and AI policy implementation

Impact

- ✓ Experiment with engaging content for students like learning summaries, podcasts and customised revision support for students with different abilities.



Matt Hastings
Head of Psychology



Text Leveler
Level any text to adapt it to fit a student's reading level / skills.



Exemplar & Non-Exemplar
Generate exemplar & non-exemplar responses to specific assignments.



Assignment Scaffolder
Break assignments down into manageable steps for students.



Text Scaffolder
Scaffold text for readers who are behind grade level or need extra support.

“I have attended various training sessions and continue to experiment with these AI tools.”



Joysy John
Computer Science
Consultant

Rachel Urquhart
Senior Leader,
Humanities Teacher

Secondary School

Assessment

AI working group

Adaptation

AI Literacy

Marking pilot

Challenge

- Provide personalised feedback on GCSE mocks and reduce teacher workload

AI Tools Used

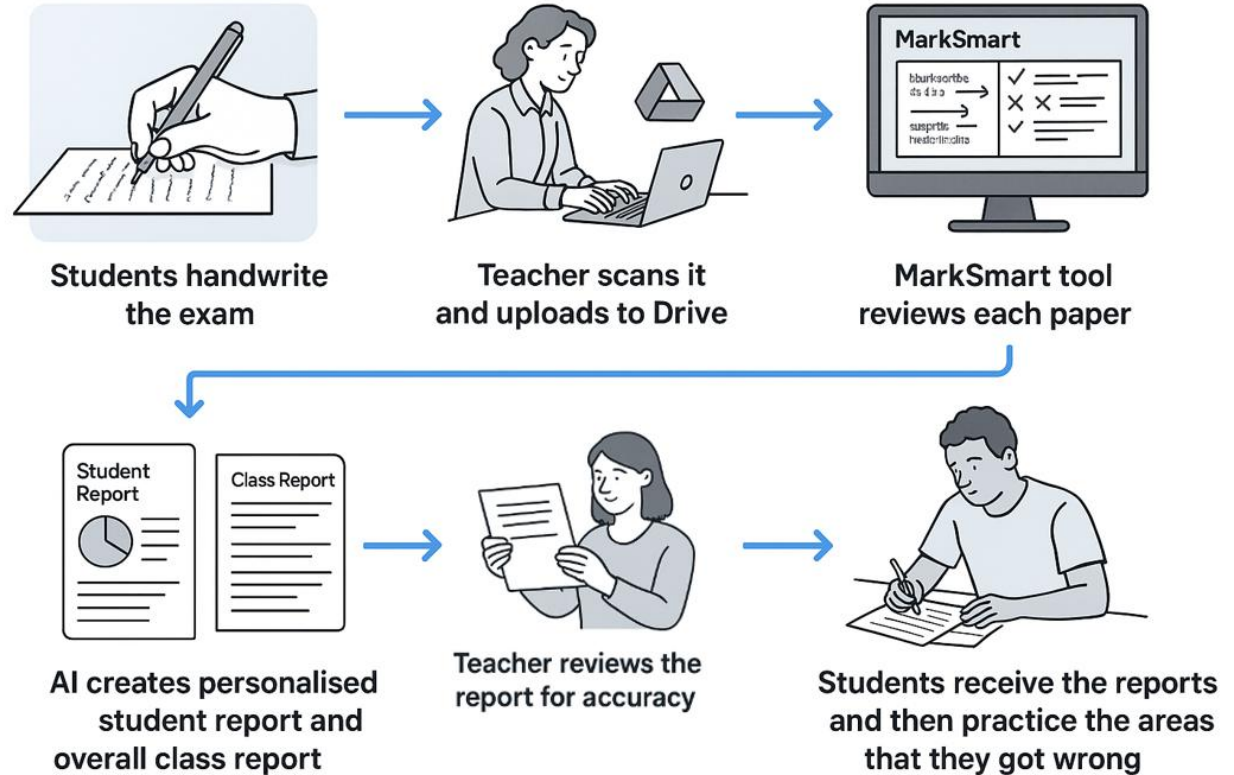
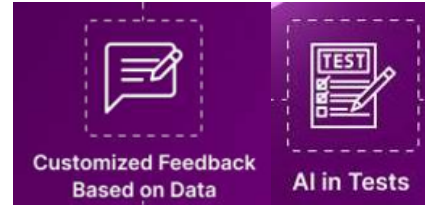
- **MarkSmart** pilot for **marking mock GCSE exam** and providing class and student report

Future Plans

- Support AI pilots for marking in other subjects

Impact

- ✓ Personalised feedback and practice questions for students
- ✓ Reduced time for marking and feedback
- ✓ Improved consistency of mock exam feedback



Challenge

- Lowering the complexity of resources
- Generating assessment ideas
- Adapting revision resources
- Introduction of AI Literacy to all year groups.

AI Tools

- Co-Pilot and Gemini as smart text assistants and STEAM projects ideas. Creating short paragraphs, pictures, or generate questions for YouTube videos.
- Notebook LM creation of podcasts (September 2025 access for Students)
- DALL-E for image generation to support creative projects
- Gamma AI to quickly produce presentations from prompts
- TeachMate for lesson planning and activity generation like quizzes, summaries and model answers.
- Tassomai and Sparx Maths used for personalised learning.

Future Plans

- Continuation of our one-to-one device programme for the new Year 7 cohort and Year 8 in September 2025
- All Staff undertake the **Safe and effective use of AI in education** CPD
- Ensure that our students are equipped with the knowledge and skills to engage with AI as a tool for innovation rather than as a challenge to fear.

Impact

- Building Staff & Student confidence with effective use of AI
- Reduced Teacher's workload and adapt student work



Angela Defoe
Computer Science and
Digital Strategy Lead

Secondary School

AI Policy

1:1 devices

Resource adaptation

AI conference & CPD

“We are proud to be part of the AI Campus, an elite programme designed to develop future leaders in AI. Two of our Year 12 students are currently participating, gaining valuable insights and experience.”



Jenny Man
Computing, DDS Lead

Secondary School

AI Policy

Digital Strategy

Adaptation

UCAS References

Essay feedback

Student Coding Support: Students input code into ChatGPT for debugging assistance, receiving immediate feedback and developing problem-solving skills with AI learning tools.

Homework Verification: Gemini Pro with Google Classroom is used to auto-mark and verify student engagement with assigned videos and digital content by answering Multiple Choice Questions on the topic.

Professional Development Content Creation: Gemini is used to improve presentations for staff training sessions, such as Pupil Premium strategies. AI assists in suggesting improvements, and ensuring key messages are highlighted.

AI is used to draft **UCAS references** and save time in customising letters. The teacher provides anonymised details about the student (some from a Google Form), and then re-prompts **Claude and Perplexity** before finishing the reference by editing.

Tutor2U, has been trialled for **marking A level Psychology Essays** for homework and for marking the teacher's own essay. While not intended for constant use, it is seen as having a place for some assignments.



Simon Flynn
Chemistry and Psychology
Teacher

“Selective adoption based on individual teacher initiative and specific departmental needs, rather than wholesale implementation.”



Jimi Appleton
Data Manager

Secondary School

AI Policy

AI Working Group

Admin tasks

Software

Challenge

- Data analysis and admin process automation

AI Tool Use

- ChatGPT and Gemini for coding and improving processes for Student Progress Reviews
- Google Sheets with Gemini scripts for options management, timetable adjustments and student satisfaction analysis

Future Plans

- AI risk assessment plans
- Continue with innovation to improve data and admin processes

Impact

- Streamlined complex processes and moved away from SIMS Options Online and built own in-house allocation software
- Improved flexibility for scheduling and analysing student satisfaction level.
- AI tools have replaced reliance on legacy systems like SIMS for Student Progress Reviews reporting - improving flexibility and responsiveness.

“I feel that the efficiency gained in these two areas (Options Allocation and Progress Reviews) has made both processes less admin-heavy.”

What can Generative AI tools do...

For Teachers

- Lesson Planning
- Resource creation
- SEND support
- Question generation
- Marking & feedback

For School Leaders and Admin

- Admin tasks
- Report writing
- Data analysis
- Summarisation

For Students

- AI literacy
- Revision support
- Engaging content
- AI tutors

Journey Towards integrating AI in education and building AI literacy



What can we do as governors and school leaders?

Develop Clear Policies

Ensure Equity in Access

Invest in Teacher CPD

Promote Ethical AI Use

**Encourage Human-AI
Collaboration**

Key Takeaways

Leadership is key: Strong executive commitment sets a credible tone and support for whole-school AI exploration.

Staff Engagement: collaborative working group across departments help drive AI exploration and sharing of best practices.

Invest in Staff Training: Hands-on, targeted professional development builds confidence and skills.

Clear Guidance: Implement an AI policy, maintain data privacy, ensure safe and responsible AI use.

Equitable access: invest in devices, infrastructure and digital pedagogy to ensure all learners can thrive in an AI world.



Working together to
achieve greater
impact

Thank You!

 **Joysy John MBE**

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