

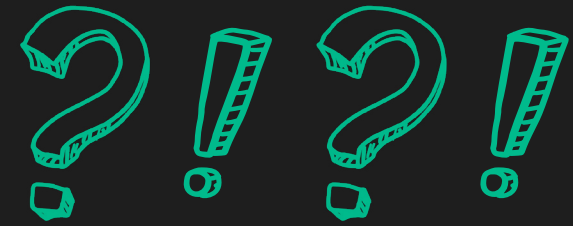


AI in K-12: **Practical** Use Cases



Introduction

AI is already being used. The question is whether your school is ready for it.



Students and teachers aren't waiting for permission — they're using AI tools right now to learn and teach. And while its promise is exciting, it also introduces risks that blocking alone simply can't address.

This eBook isn't about whether or not K-12 schools should adopt AI.

It is about how to do it thoughtfully and responsibly, when you're ready to do so, by balancing the classroom and operational benefits AI brings with stakeholder privacy, data security and equity-ensuring guardrails institutions need to consider.

In short, practical use cases combined with clear guidance that provides a path forward for the educators and IT teams ready to navigate adoption successfully.



The guardrails



When it comes to AI tools in K-12, framing often boils down to whether institutions are adopting AI tools for stakeholder use or whether IT has them locked down, effectively preventing their use on school-owned equipment.

This creates a snowball effect, whereby users merely seek out other avenues, like personally owned devices, to access AI tooling. In doing so, management and security policies in place block only school-owned equipment but do nothing to mitigate risk associated with using AI tooling on unsanctioned devices.

AI in education: where the line is

When access is blocked, stakeholders look for other ways to achieve what they set out to do. This is the underlying reason why blocking alone doesn't address the core issue but simply compounds risk.

→ Shadow AI

Turning to unvetted apps and services puts teacher and student personal data, along with institutional sensitive data, at risk to threats and non-compliance with regulations.

→ Data leaks

Use of potentially sensitive data on unsanctioned devices is introduced — all without visibility into what is being shared, how it's being used, by whom or where it ends up.

→ Skill development

Teachers and students hide AI usage, eliminating the opportunity to learn how to use AI transparently. This leads to a loss of academic integrity and stalls skill development.

→ Content bias

Unvetted data used for training AI may present outputs that reflect educational inequalities and/or ethical concerns that reinforce biases instead of reducing them.

→ Digital divide

The widening of the digital divide contributes to inequitable learning outcomes between marginalized groups and those with access to modern learning resources.

The alternative to blocking isn't a free-for-all. It's knowing which use cases are worth enabling — and how to do it right. Here's where schools are already seeing results.

Edu use cases: AI for educators

From lesson prep to professional growth



Less time spent on paperwork means more time devoted to the classroom.



Drafting lesson plans

AI helps save time when creating lesson plans by targeting a learning objective, grade level and learning time, alongside other required parameters, to not only [generate high-quality lesson plans quickly](#) — but also differentiate content, create worksheets and discussion questions.

What schools use it for:

- ✓ Creating lesson plans
- ✓ Differentiating content
- ✓ Creating worksheets
- ✓ Generating discussion questions
- ✓ Adapting lessons for different age groups



Creating rubrics and assessments

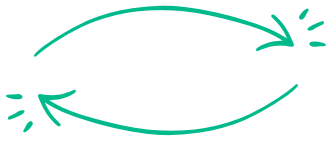
Aligning rubrics is easily achieved by incorporating institutional and/or regional learning standards with generated assignments, like multiple-choice quizzes. Additionally, AI helps [streamline grading and deliver essential feedback through automation technologies](#) that provide rapid iteration while effectively reducing educator workload.

What schools use it for:

- ✓ Draft feedback
- ✓ Rubric alignment
- ✓ Exit tickets
- ✓ Multiple-choice generation
- ✓ Standards alignment checks

Edu use cases: AI for educators (continued)

From lesson prep to professional growth



Streamlining stakeholder and multilingual communication

Enabling real-time, two-way engagement with students and parents is a crucial aspect of achieving desired learning outcomes. AI removes the barrier of language by providing educators, students and their parents [an easier way to communicate with cultural and reading-level sensitivities](#) built-in across desktop and mobile devices.

What schools use it for:

- ✓ Drafting parent and guardian communications
- ✓ Translating newsletters and updates
- ✓ Adjusting reading level for different audiences
- ✓ Cultural tone adaptation
- ✓ Two-way multilingual messaging



Supporting professional development

Teachers committed to growing their practice are turning to AI as an on-demand coaching resource. Beyond traditional CPD sessions, AI chat tools let educators check their own subject knowledge conversationally, stress-test how their explanations land for different age groups or reading levels, and rehearse difficult interactions — like parent meetings — before they happen. The result is more responsive, self-directed professional growth that fits around a teacher's schedule, not just their calendar.

What schools use it for:

- ✓ Creating CPD resources and self-study materials
- ✓ Role-playing parent or guardian conversations
- ✓ Refining questioning techniques for different learners
- ✓ Leadership development and coaching practice



Better support of learning outcomes for every student — on campus and off.



Personalized tutor

AI goes beyond homework answers, guiding students through questioning and practice activities that build real understanding. It scales to meet students where they are currently, helping them to reach where they need to be, by [tearing down equity barriers](#) with customizable, one-to-one tutoring.

What schools use it for:

- ✓ Guided questioning and argument development
- ✓ Source evaluation and critical thinking
- ✓ Subject-specific research support
- ✓ Building independent study habits
- ✓ Extended project and essay scaffolding



AI reading tutors and oral reading fluency

Students read aloud while AI listens, tracking fluency, pronunciation and comprehension in real time — then surfaces that data for the teacher in a simple dashboard. No behavioral profiling, no surveillance angle. Adaptive literacy technologies have one of the more mature evidence bases in ed-tech and [continue to show positive outcomes when implemented well](#), making them among the lower-risk AI tools for schools to introduce.

What schools use it for:

- ✓ Reading fluency practice and tracking
- ✓ Pronunciation coaching
- ✓ Vocabulary development
- ✓ Reading comprehension support

Edu use cases: AI as an accessible learning tool (continued)



Voice-enabled and multimodal assessments

For students and staff who need additional support engaging with written work, AI is opening up more equitable ways to demonstrate and assess understanding. Text-to-speech, speech-to-text and real-time translation remove barriers that have historically disadvantaged learners with additional needs. UNESCO [consistently identifies accessibility as one of the strongest educational applications of AI](#), particularly for learners who need it most.

What schools use it for:

- ✓ Text-to-speech and speech-to-text
- ✓ Translation and multilingual support
- ✓ Reading support for EAL and SEND learners
- ✓ Simplified explanations for complex content



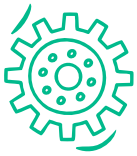
Generate personalized study guides

By uploading class notes or chapter summaries into AI, students benefit by [tailoring study techniques that save time](#) while targeting content that is personalized for their unique needs and learning styles. For example, conduct knowledge checks, work through practice questions or study using flash cards that assess and provide feedback instantly.

What schools use it for:

- ✓ Knowledge checks
- ✓ Flashcard creation
- ✓ Practice questions
- ✓ Summarizing class notes
- ✓ Personalized revision plans

Edu use cases: AI as an accessible learning tool (continued)



Adapting instructions for needs

AI tooling helps students and educators alike by adjusting content, without additional effort, to target individual student needs. By adapting to a learner's progress, personalized learning and content adaptation dynamically rewrites content for different reading levels, bakes in EAL support and tailors learning for SEND accommodations.

What schools use it for:

- ✓ Reading level adjustment
- ✓ EAL support
- ✓ SEND accommodations
- ✓ Content simplification
- ✓ Progress-adaptive learning



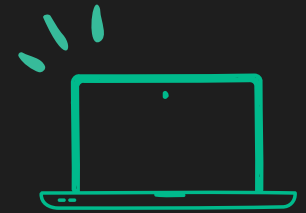
AI as a research partner

Learning to use AI as part of the research process gives students a personal tutor available at any hour — one that guides rather than answers outright. This has real equity implications: students from households that can afford private tutoring have long had a structural advantage. AI won't replicate that relationship entirely, but it narrows the gap. Research continues to support the value of one-to-one tutoring, and AI tutors are being explored as a scalable way to provide more individualized support.

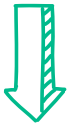
What schools use it for:

- ✓ Homework support and guided questioning
- ✓ Practice activities and knowledge checks
- ✓ Subject-specific tutoring
- ✓ Building independent research habits





Data-driven decision-making shifts operations from reactive to proactive.



Summarize help desk incident reports

Saving IT teams time and creating a consistent paper trail are key aspects of the issue resolution process. AI-enabled tools [streamline the incident handling lifecycle by identifying, routing and prioritizing tickets](#) for the correct team. Additionally, GenAI creates structured incident reporting based on IT's notes for seamless documentation workflows.

What schools use it for:

- ✓ Ticket routing and prioritization
- ✓ Structured incident reporting
- ✓ Documentation automation
- ✓ Issue categorization
- ✓ Resolution tracking



Supporting students with early intervention

Quick, data-driven decision-making is one of AI's core strengths in K-12 operations, and for students, surfacing patterns, like declining attendance or analyzing academic records, [identifies risk indicators before a crisis develops](#). Furthermore, proactive data analysis helps educators identify intervention groups and aids in progress tracking of learning gap resolution.

What schools use it for:

- ✓ Attendance pattern monitoring
- ✓ Academic risk identification
- ✓ Intervention group targeting
- ✓ Learning gap tracking
- ✓ Progress monitoring



Analyze vendor contracts and procurement

AI aids institutionally-based operations, such as procurement workflows, in numerous measurable ways: analyzing contracts, tracking subscriptions and forecasting renewal risk. This [helps K-12 schools highlight savings opportunities](#) by automating the review of invoices, purchase orders and budgets to identify duplicate spending and consolidate vendors.

What schools use it for:

- ✓ Contract analysis
- ✓ Subscription tracking
- ✓ Renewal forecasting
- ✓ Invoice review
- ✓ Duplicate spend identification

What responsible AI adoption actually looks like



The use cases on the previous pages are only worth pursuing once the structure below is in place. Balancing innovation, stakeholder privacy, and data security seamlessly into actionable plans that meet K-12 institutional needs sits at the heart of a clear AI governance strategy. One that maintains human oversight and is continuously evaluated to ensure equity for all Edu stakeholders.

Here are five practical strategies K-12 institutions can lean on to implement AI use cases responsibly:

1

Align to AI governance guidelines

Don't start from scratch. Expand existing policies by integrating AI guidelines that set expectations and provide transparency, while evaluating compliance consistently.

2

Keep a human in the loop

AI surfaces, drafts and flags but ultimately, educators make the decision. Any tool that removes that step deserves a hard look.

3

Default to privacy and security

Treat privacy and data security as a baseline. Doing so both builds more trust with stakeholders while potentially facing fewer regulatory problems.

4

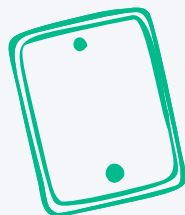
Minimize the data you feed it

If sensitive data isn't required for a use case to function properly — don't use it. The best solutions are tightly scoped.

5

Continually evaluate compliance

Compliance isn't a one-time checkbox. Consistently review what's been deployed to determine if it's still being used the way it was intended.





Conclusion

AI is the future, but it isn't coming to K-12 — it's already here.

And the schools that thrive won't be the ones who used it first nor the ones that restricted it until governance caught up to the technology.

It'll be the ones who **put the guardrails in place first, then** integrated AI into learning, teaching and K-12 operations thoughtfully.

Through real use cases, such as personalized tutoring, smarter lesson planning, streamlined IT workflows and early student intervention — the proof points are real and the benefits are measurable.

Responsible AI adoption is an ongoing practice, and one you don't have to figure out alone because Jamf is ready to help you take that next step.

[Learn More about Jamf for K-12](#)