

EdTech in Schools 101



A Roadmap to Improve
Digital Integration and Digital
Literacy in Education

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Executive Summary

During the onset of the global COVID-19 pandemic, teachers were thrust into adopting **educational technology (EdTech)** tools overnight, transitioning traditional face-to-face classrooms online. This marked a significant educational feat, as the EdTech adoption rate spiked within a short period of time. **Research** at that time predicted that the integration of technology in classrooms would become the 'new normal'. However, this optimism was short-lived. As the pandemic subsided and schools began transitioning back to face-to-face classrooms, a stark plummeting of technological adoption was observed worldwide, especially in third-world countries.

Nevertheless, technological change did not stagnate. A second spike of EdTech adoption occurred when OpenAI announced the chatbot sensation that took the internet by storm, **ChatGPT**, at the end of 2022, heralding the age of the democratization of AI. Its accessibility at no cost and minimal learning curve reignited educators' adoption of technology in the classroom to streamline various teaching tasks. This re-ignited excitement resonates with our report.

Despite this, however, we observe the effective and seamless integration of educational technology into the classroom remains a challenging endeavor for many educators, hindered by various constraints and limitations ranging from lack of resources or professional development to infrastructure limitations

and resistance from educators who feel overwhelmed by the pace of change. In addition, schools often face the challenge of balancing the integration of technology with traditional teaching methods, as well as ensuring equitable access for all students, budget constraints, and navigating the rapidly evolving landscape of educational technology options.

The overarching aim of this white paper is to bridge the gap between educators and technology, encouraging more meaningful adoption of technologies in the classroom by providing the knowledge, resources, and skills required. To achieve this, the white paper is divided into three main sections. The first section analyzes data gathered from teachers and educators worldwide regarding technological adoption – including concerns, challenges, levels of readiness, and impacts. The second section provides key insights schools and educators need for more seamless adoption of technologies in the classroom, ranging from curriculum resources and professional development to tips for budget planning, **building digital citizenship**, data privacy, and a repository of free and open-source educational software and resources, along with a comprehensive guide to selecting the right EdTech solution for schools or classrooms. Finally, the third section equips educators with knowledge about what to expect in the near **future of the EdTech** landscape and how to prepare for it.

Glossary

1. **21st Century Skills:** A set of abilities that students need to develop in order to succeed in the modern world, including critical thinking, communication, collaboration, and creativity, often enhanced by digital literacy.
2. **Adaptive Learning:** Educational technology that adapts the learning experience to each student's individual needs and abilities through data-driven algorithms.
3. **Blended Learning:** An instructional approach that combines traditional face-to-face instruction with online learning activities, allowing for flexibility and personalized learning experiences.
4. **Blockchain:** A decentralized, distributed ledger technology that records transactions across multiple computers in a tamper-resistant and transparent manner.
5. **BYOD (Bring Your Own Device):** A policy allowing students to bring their own electronic devices, such as laptops or tablets, to use for educational purposes in the classroom.
6. **Cognitive Learning:** The process of acquiring knowledge, understanding, and skills through mental processes such as perception, reasoning, and memory.
7. **Cyberbullying:** Bullying or harassment that takes place over digital devices or platforms, including social media, email, and messaging apps.
8. **Cybersecurity:** The practice of protecting computer systems, networks, and data from unauthorized access, cyberattacks, and other security breaches.
9. **Data Compliance:** Adherence to regulations and standards governing the collection, storage, processing, and sharing of data to ensure privacy, security, and legal compliance.
10. **Data Equity:** The equitable access to and use of digital technologies, resources, and opportunities regardless of socioeconomic status, geographic location, or other factors.
11. **Data Privacy:** Protection of sensitive information from unauthorized access or disclosure.
12. **Digital Citizenship:** The responsible and ethical use of technology, including understanding digital rights, responsibilities, and online safety.
13. **Digital Divide:** The gap between individuals or communities who have access to digital technologies and those who do not, often due to socioeconomic factors.
14. **Digital Fluency:** A deeper level of digital literacy that involves the ability to adapt to new technologies and platforms quickly and effectively.
15. **Digital Literacy Assessment:** Evaluative measures used to assess students' proficiency in digital literacy skills, including knowledge of digital tools, critical thinking abilities, and ethical considerations related to technology use.
16. **Digital Literacy:** The ability to effectively navigate, evaluate, and create information using digital technologies.
17. **EdTech (Educational Technology):** Technology tools and platforms specifically designed for educational purposes, such as learning management systems, educational apps, and interactive whiteboards.

- 18. Flipped Classroom:** A teaching approach where traditional classroom activities, such as lectures, are delivered online outside of class, allowing for more interactive and engaging activities during class time.
- 19. Gamification:** The integration of game elements, such as points, badges, and leaderboards, into educational activities to increase engagement and motivation.
- 20. Hybrid Learning:** An instructional approach that combines face-to-face classroom instruction with online learning activities, providing flexibility and personalized learning experiences.
- 21. ICT (Information and Communication Technology):** Technologies used for the storage, retrieval, transmission, and manipulation of information, including computers, software applications, and telecommunications networks.
- 22. Inquiry-Based Learning:** An educational approach where students actively engage in questioning, investigating, and exploring to construct their own understanding of concepts and ideas.
- 23. Internet Safety:** Practices and guidelines to ensure the safe and responsible use of the internet, including protecting personal information and avoiding online risks.
- 24. Massive Open Online Courses (MOOCs):** Online courses that are open to unlimited participation and typically offer video lectures, interactive quizzes, and discussion forums, often provided by universities and other educational institutions.
- 25. Microlearning:** A learning approach that delivers small, focused units of content, typically through short activities or modules, designed to meet specific learning objectives.
- 26. Open Educational Resources (OER):** Educational materials and resources that are freely available for educators and students to use, share, and modify, often distributed under open licenses.
- 27. Personalized Learning:** An instructional approach that tailors teaching methods, content, and pace to individual student needs, interests, and learning preferences.
- 28. Responsible Technology:** The ethical and mindful use of technological innovations to safeguard individuals' rights and well-being.
- 29. Social-Emotional Learning (SEL):** The process of acquiring and applying the knowledge, attitudes, and skills necessary to understand and manage emotions, develop empathy and establish positive relationships.
- 30. STEAM Education:** An interdisciplinary approach to learning that integrates science, technology, engineering, arts, and mathematics, often incorporating digital tools and project-based learning.
- 31. Technology Integration:** The incorporation of technology tools and resources into the teaching and learning process to enhance educational outcomes.
- 32. Untethered Teaching:** The practice of teaching and learning that is not bound to a physical classroom or specific location, often facilitated by mobile devices, online resources, and virtual collaboration tools.

Importance of Digital Literacy

What is Digital Literacy?

Digital literacy refers to the ability to effectively use, navigate, and critically engage with digital information, communication technologies, and online platforms. It encompasses a range of skills, competencies, and attitudes that enable individuals to effectively use digital tools and resources and participate in the digital world.

Why is Digital Literacy Important?

Digital literacy encompasses mastery of a range of the following skills:

- **Information Literacy:** With information literacy, you are able to find digital information, and evaluate its credibility, reliability, and relevance.
- **Media Literacy:** With media literacy, you are able to critically analyze and interpret media messages, including understanding biases and stereotypes involved.
- **Communication Skills:** With communication skills, you are able to communicate effectively through digital channels using appropriate digital etiquette.
- **Critical Thinking:** With critical thinking skills, you are able to think discerningly about digital content, questioning assumptions, identifying biases, and evaluating arguments presented online.
- **Creativity and Innovation:** With creativity and innovative thinking, you are able to create, remix, and share digital content in innovative and meaningful ways.
- **Privacy and Security Awareness:** With privacy and security awareness, you are able to understand digital privacy issues, including protecting personal information online, managing digital footprints, and recognizing potential risks and threats to online security.
- **Ethical Use of Technology:** With knowledge of the ethical use of technology, you are able to practice digital citizenship and promote responsible online behaviors.

On top of acquiring the above skills, digital literacy brings with it the following benefits:

Benefits of Digital Literacy

1

Efficiency and Streamlined Tasks

Digital literacy enables educators to streamline teaching tasks, automate administrative processes, and optimize classroom workflows.



Why is it important:

So educators have more time to focus on instructional activities, student support, and professional development.



Example

Utilizing learning management systems (LMS) to organize course materials, create assignments, and provide feedback streamlines the process of managing and grading student work, freeing up valuable time for educators to focus on personalized instruction and student engagement.

2

Data-Informed Decision Making

Digital literacy empowers educators to collect, analyze, and interpret data to inform instructional decision-making and improve student outcomes.



Why is it important:

So educators can use the insights gained into making data-driven adjustments to their teaching strategies and interventions, and identifying students in need of help early on.



Example

Using digital assessment platforms that provide real-time data on student performance allows educators to identify areas of strength and weakness, tailor instruction to individual student needs, and implement targeted interventions to support student growth and achievement.

3

Personalized Learning and Differentiation

Digital tools to customize instruction to meet the diverse needs and preferences of students. Digital literacy facilitates personalized learning and differentiation by providing educators



Why is it important:

So educators can tailor instructional content to individual learning styles, and provide targeted support to students at various skill levels.



Example

Utilizing adaptive learning platforms that adjust content and pacing based on individual student responses allows educators to provide personalized instruction, scaffold learning experiences, and differentiate instruction to accommodate diverse learning needs and abilities.

4 Preparation for the Digital Age

Embracing digital literacy not only benefits educators, its beneficiaries also include students. Digital literacy equips students with the essential skills and competencies needed to thrive in the digital age.



Why is it important:

In today's era where technological advancement evolves at a rapid pace, proficiency in using digital tools and navigating online resources is no longer optional—it's a necessity. By integrating digital literacy into the curriculum, educators prepare students for the demands of the modern workforce.



Example

Teaching students how to use productivity tools such as Google Workspace or Microsoft Office not only enhances their ability to create documents and presentations but also familiarizes them with collaborative online work environments commonly used in professional settings.

5 Adaptability and Critical Thinking

Digital literacy empowers students to critically evaluate and analyze information encountered online, and embrace an adaptive and flexible mindset on challenges they face.



Why is it important:

In an era of abundant information and widespread misinformation, the ability to discern credible sources from unreliable ones is paramount, promoting academic integrity and ethical use of technology.



Example

Engaging students in activities where they evaluate the reliability of sources found on the internet before citing them in research projects encourages them to consider factors such as author credibility, publication date, and corroborating evidence.

6 Digital Citizenship and Online Safety

Digital literacy encompasses the knowledge and skills necessary to navigate the digital world responsibly and safely.



Why is it important:

So students are aware of the how-tos for online etiquette, privacy protection, cyberbullying prevention, and digital footprint management, and become empowered digital citizens who contribute positively to online communities.



Example

Implementing lessons on digital citizenship and online safety, such as discussions about the importance of respecting others' privacy online and strategies for safeguarding personal information, helps students develop the awareness and skills needed to navigate the digital world responsibly.

7 Equity and Access

Digital literacy plays a crucial role in addressing equity issues by ensuring that all students have equal access to technology and digital resources.



Why is it important:

So educators can help bridge the digital divide and empower every learner to have equal access to participate in the digital world.



Example

Implementing initiatives such as one-to-one device programs or providing access to technology resources outside of school hours through community partnerships can help ensure that all students have equitable access to digital tools and opportunities.



Beyond the Buzzwords:

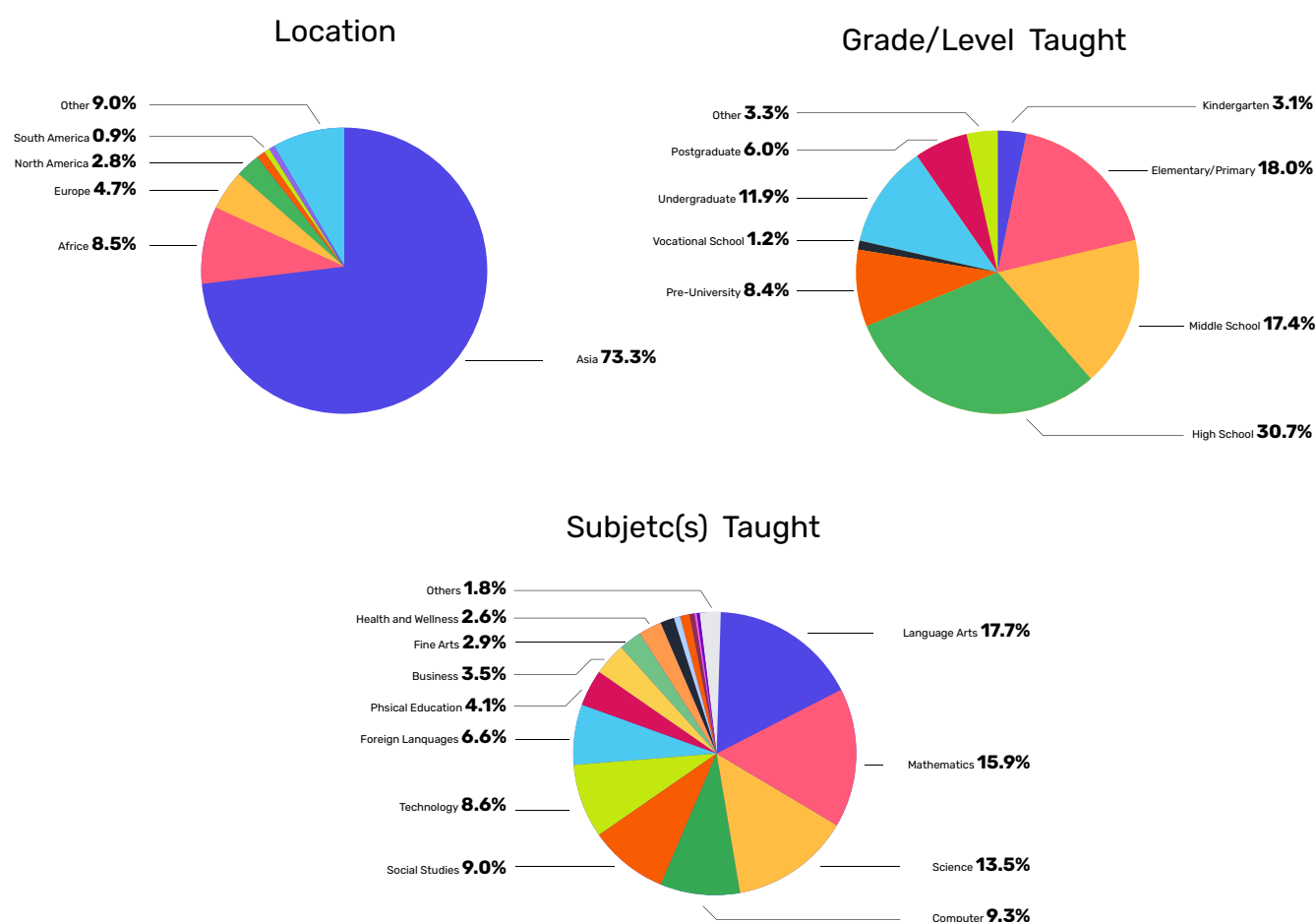
A Glance at the Insights

Introduction and Disclaimers

To gain deeper insights into teachers' perspectives regarding the integration of technology in the classroom, we conducted a survey that engaged 432 participants from various regions worldwide, encompassing Asia, Europe, North America, South

America, the MENA region, Africa, and Oceania. It's worth noting that the data leans more towards the Asian region due to a higher number of participants from that area. See Figure 1.

Figure 1

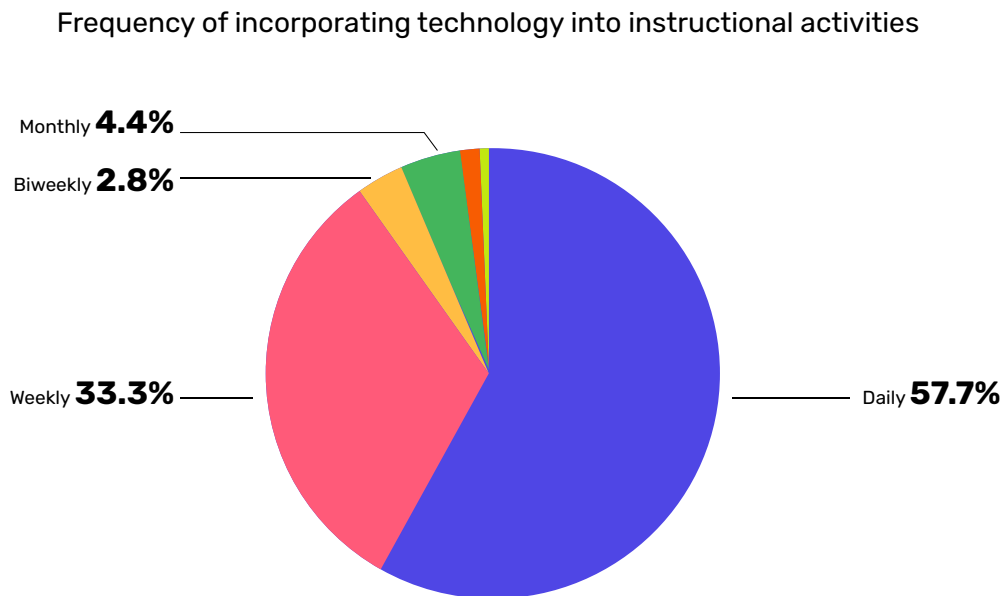


On top of that, we received relatively more responses from educators teaching in elementary or primary school, middle school as well as high school as compared to educators teaching in tertiary education level. See Figure 1. And because of this, the subjects taught are also geared more towards

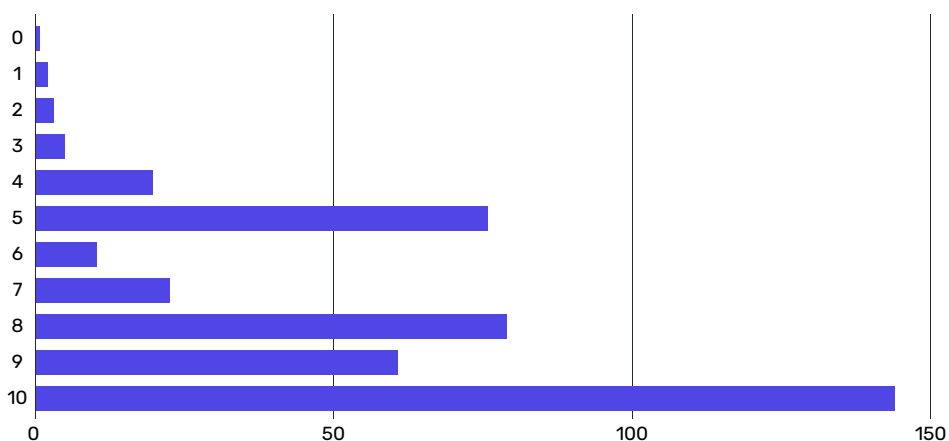
languages, mathematics and sciences, as compared to professional courses, reflecting the foundational focus of these educational levels. See Figure 1. With these considerations in mind, we can now move on to evaluate the data we gathered.

Technology Adoption

Figure 2



Comfort Level in Technology Integration in the Classroom



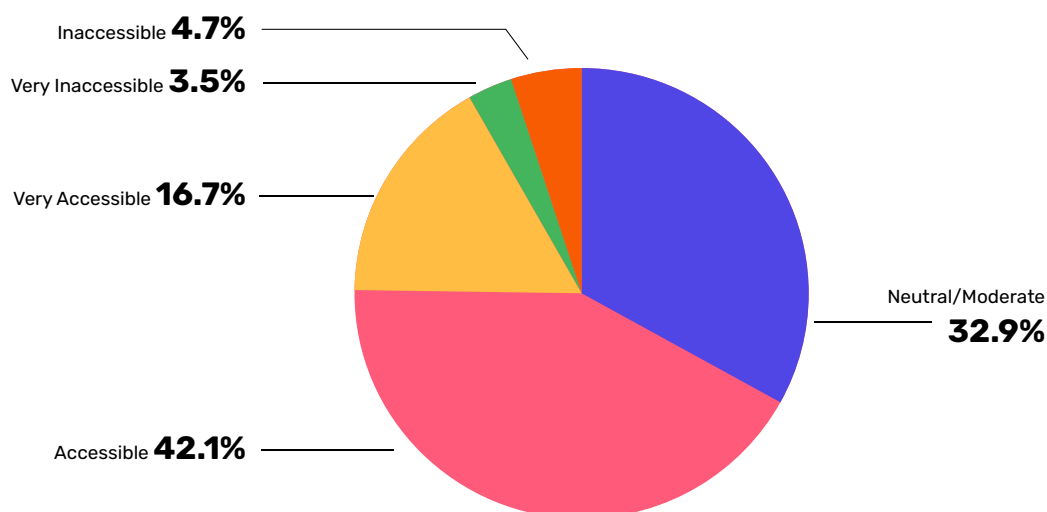
The survey unveiled a spectrum of attitudes towards technology integration, as evidenced by the frequency of adoption and the comfort level with technology integration in the classroom. A **notable majority of educators (91%) reported using technology in instructional activities frequently**, either on a daily or weekly basis. Overall, teachers exhibit a **considerable level of comfort** with technology

usage in the classroom, with 34% indicating high comfort levels, while 17.9% expressed only moderate comfort levels. See Figures 2. However, these data revealed interesting trends when we delved into the accessibility and equity of technology usage among the students.

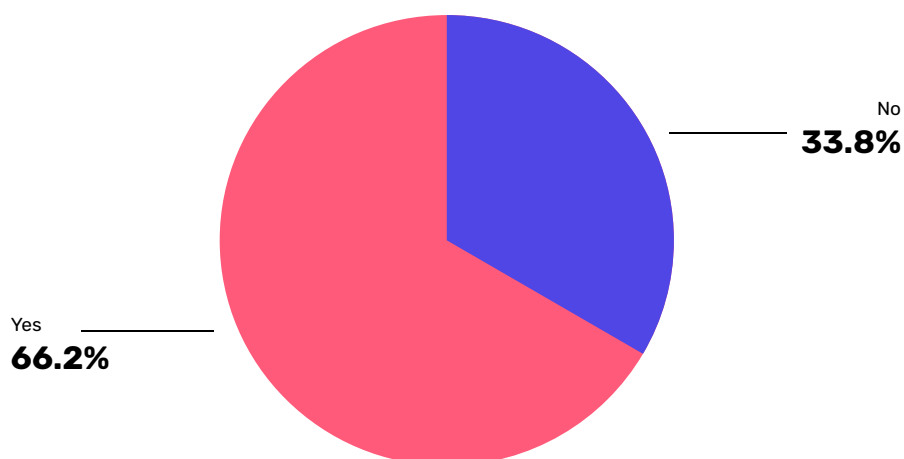
Technology Accessibility and Equity Among Students

Figure 3

Student Accessibility of Technology in the Classroom



Disparities in Technology Access Among Students



When asked how accessible technology resources are available for the students, in other words, how easily students can access the necessary technology tools and resources, responses varied. **Only 16.7% find technology to be very accessible or readily available for students**, and the majority (75%) would consider technology to be accessible or only

moderately accessible to students. On the surface, this does not seem to tally with the frequent usage of technology in the classroom as reported. However, there could be various explanations to this. See Figure 3.

(i) Educators' Use of Technology Does Not Necessarily Match Accessibility of Devices

Firstly, while educators may be incorporating technology into their instructional activities regularly, the level of accessibility of devices or internet for students might vary depending on contexts. This means that even if technology is being used regularly in the classroom, it doesn't necessarily mean that all students have equal access to it.

This is confirmed by the data we gathered from teachers regarding the perceived disparities in technology access among students. A majority of **66.2%** of educators expressed concern regarding the disparities in technology access among students, suggesting that the issue of unequal access to technology resources is widely recognized within the education community worldwide. See Figure 3.

(ii) Ambiguities to the Interpretation of "Technology"

Secondly, there could also be ambiguities and nuances to the interpretation of "technology" among educators. Here are the different ways educators may potentially interpret the term "technology":

- Educational technology (Edtech) tools, such as quizzing tools, interactive teaching tools, artificial intelligence (AI) tools
- Gamification platforms
- Video conferencing tools

- Learning management systems (LMS) like Google Classroom, Moodle, or Canvas
- Physical infrastructures provided by the schools such as laptops, smartboards, iPads, and other devices that enable digital instruction and content delivery
- Documentation or presentation tools such as Microsoft suite
- Untethered teaching experience emphasizing flexibility and mobility that transcend the confines of traditional classrooms, encompassing mobile devices, remote teaching, hybrid teaching, and the flipped classroom model.

And because of the varying interpretations of "technology", there may be discrepancies between educators' perceptions of technology usage in the classroom. While educators may indeed integrate "technology" into their teaching practices, this term encompasses a broad spectrum of applications. It can range from simply utilizing existing infrastructures within classrooms, to employing rudimentary technological tools such as presentation software, and extend to the integration of more advanced educational software, digital platforms, and modern teaching methodologies. So despite the reported frequent usage of technology in the classroom, this does not necessarily equate with a consistent and comprehensive incorporation of innovative digital resources and pedagogies.

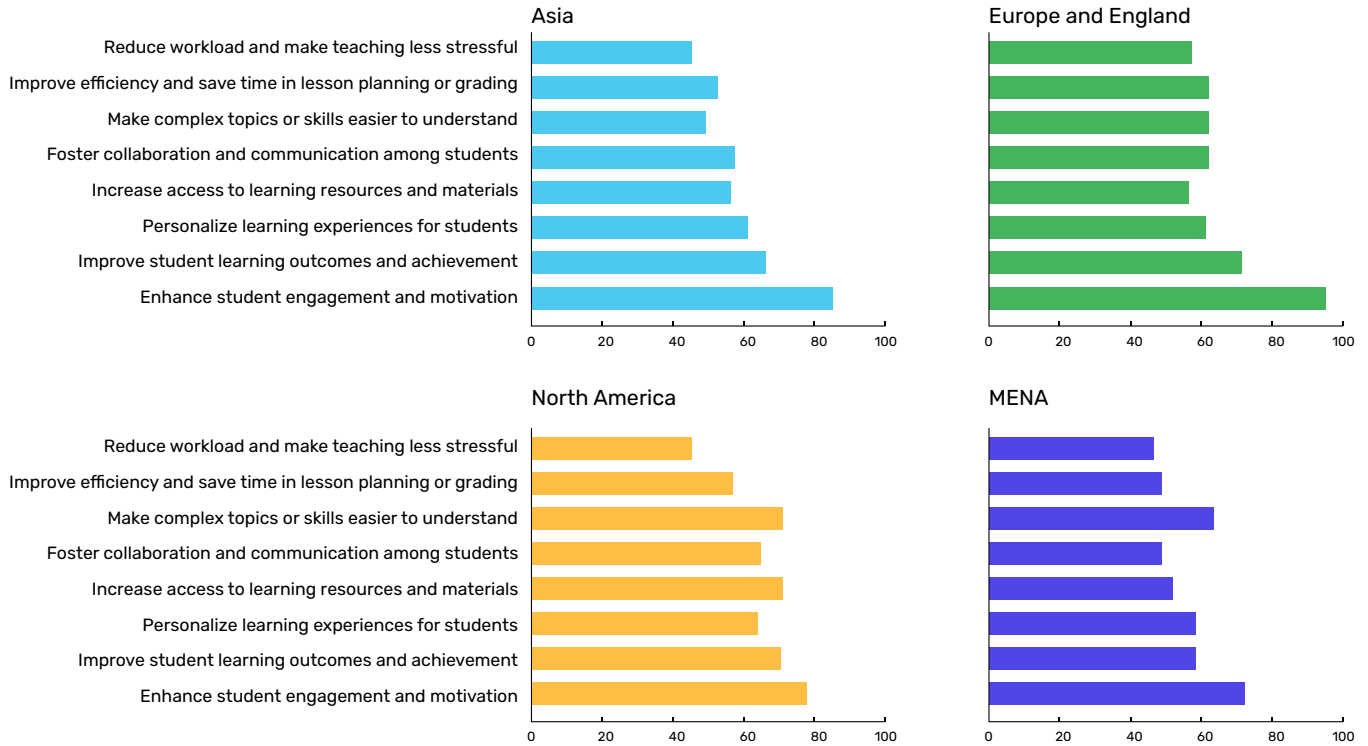
Demographics and Motivations for Technology Adoption

To gain a more comprehensive understanding of educators' actual experiences with technology, it is crucial for us to disaggregate the data according to demographics. The data will be compared across four regions: Asia, Europe (including England), North America, and MENA (Middle East and North Africa) and

Africa. South America and Oceania will be excluded from the analysis due to their smaller sample sizes. This approach will allow us to identify any regional variations in technology usage and perceptions among educators more accurately.

Figure 4

Educators' Motivations to Adopt Technology in the Classroom by Region



High Motivation for Student Engagement and Learning Outcomes

Comparing the motivations or reasons behind technology adoption among educators across different regions reveals interesting findings. Firstly, educators from all regions are highly motivated by how technology can enhance student engagement and motivation, as well as improve student learning outcomes and achievement. See figure 4. The universal emphasis on technology's potential to enhance student engagement and motivation, as well as improve learning outcomes and achievement, reflects a common goal shared by educators worldwide. This suggests a recognition of technology's transformative impact on teaching and learning processes.

Reducing Workload as a Lower Priority

Among all the motivating factors, reducing workload and making teaching less stressful is the least

prioritized across all regions. See Figure 4. The lower prioritization of reducing workload and making teaching less stressful suggests that while educators recognize the potential efficiency gains offered by technology, they may prioritize other educational goals such as student engagement and learning outcomes rather than focusing solely on streamlining administrative tasks or reducing their own workload.

Regional Differences in Priorities

Regional variations in priorities reflect the unique educational contexts and motivations adopted by educators in different parts of the world. For instance, educators from Europe and England tend to prioritize improved efficiency and time saved in lesson planning or grading using technology more than educators from other regions, perhaps due to pressures related to curriculum demands and assessment requirements, or the emphasis on efficiency and productivity in the region. See Figure 4.

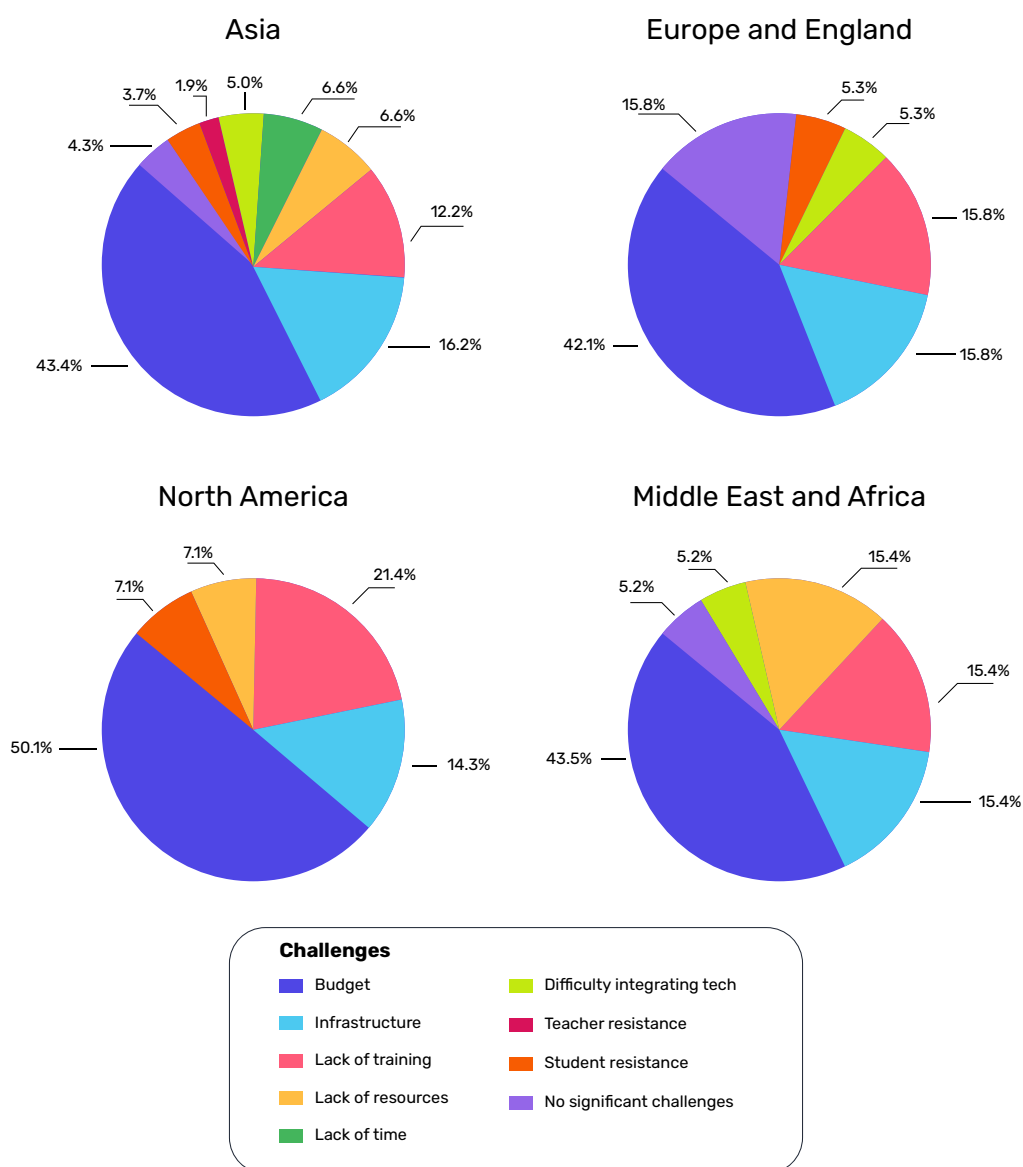
On the other hand, educators in North America tend to place greater emphasis on students with access to diverse learning resources and materials, reflecting a commitment to equity and inclusivity in education. Making complex topics or skills easier to understand also appears to be of particular significance among educators in North America, suggesting the greater recognition of technology's potential to address diverse learning needs and promote deeper understanding and mastery among students. See Figure 4.

In addition, we also observe notable differences between educators' motivations from Western and Eastern regions, highlighting cultural differences that influence technology adoption patterns. Educators from Western countries (America, Europe, England, and Oceania) were observed to prioritize collaborative and personalized learning experiences more than their counterparts in Eastern regions, reflecting a learner-centered approach to education. See Figure 4.

Demographics and Challenges in Technology Adoption

Figure 5

Challenges Faced by Educators in Adopting Technology in the Classroom by Region



Budget Constraints as the Largest Barrier

Among all the challenges and barriers highlighted, budget constraints remain the largest barrier across Asia, Europe (including England), North America, MENA, and Africa. Regardless of region, educators consistently cite limited financial resources as a significant impediment to effective technology integration in education. See Figure 5. These budget constraints may manifest in various forms, including inadequate funding for purchasing hardware and software provided by schools, challenges in maintaining and upgrading existing technology infrastructure, or insufficient funding or support by the Ministry of Education.

Infrastructure Limitation and Lack of Training Come Second

Next, infrastructure limitations, such as unreliable internet access and outdated equipment, as well as a lack of training for teachers on using new technologies rank as significant barriers shared across all regions. See Figure 5. A handful of teachers have expressed concern that schools and authorities are not adequately providing training and professional development programs to help them keep pace with technological advancements in education, leaving them to rely on self-learning. These limitations may hamper the effective use of technology in the classroom and impede educators' ability to deliver digital instruction seamlessly.

Asia-Specific Challenges

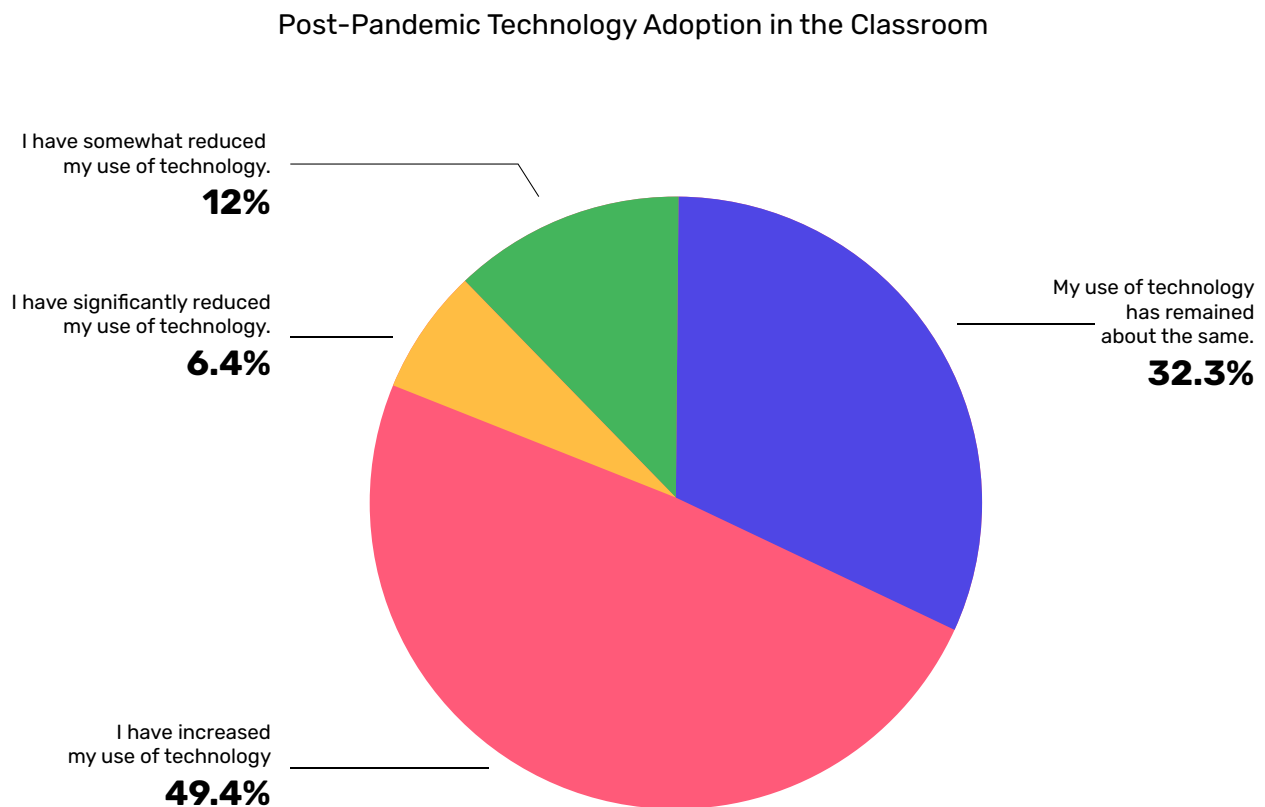
As compared to other regions, educators from Asia face a wider range of challenges in integrating technology into education, including resource constraints, time limitations due to administrative burdens, difficulties in technology integration, and resistance from teachers and students. These factors are not unique to Asia specifically but educators across the region have cited some if not all of these reasons as impacting their effective integration of technology in the classroom. Notably, two challenges unique to educators cited by some of the educators include parental constraints on technology use and device shortages, exacerbating barriers to effective technology adoption. Educators in Asia and Africa also cited poverty and socio-economic disparities as one of the challenges faced by students in those regions, highlighting the urgent need for targeted interventions to close the widening digital divide. See Figure 5.

US-Specific Challenges

In the US, educators also complained about student mindset when it comes to technology usage. These challenges include instances where students disengage from lessons due to distractions such as gaming on laptops or using cell phones during class. See Figure 5. These issues highlight the importance of addressing student attitudes and behaviors towards technology use in the classroom, to ensure successful and effective use of technology in teaching.

Further Challenges: Post-Pandemic Technology Adoption

Figure 6

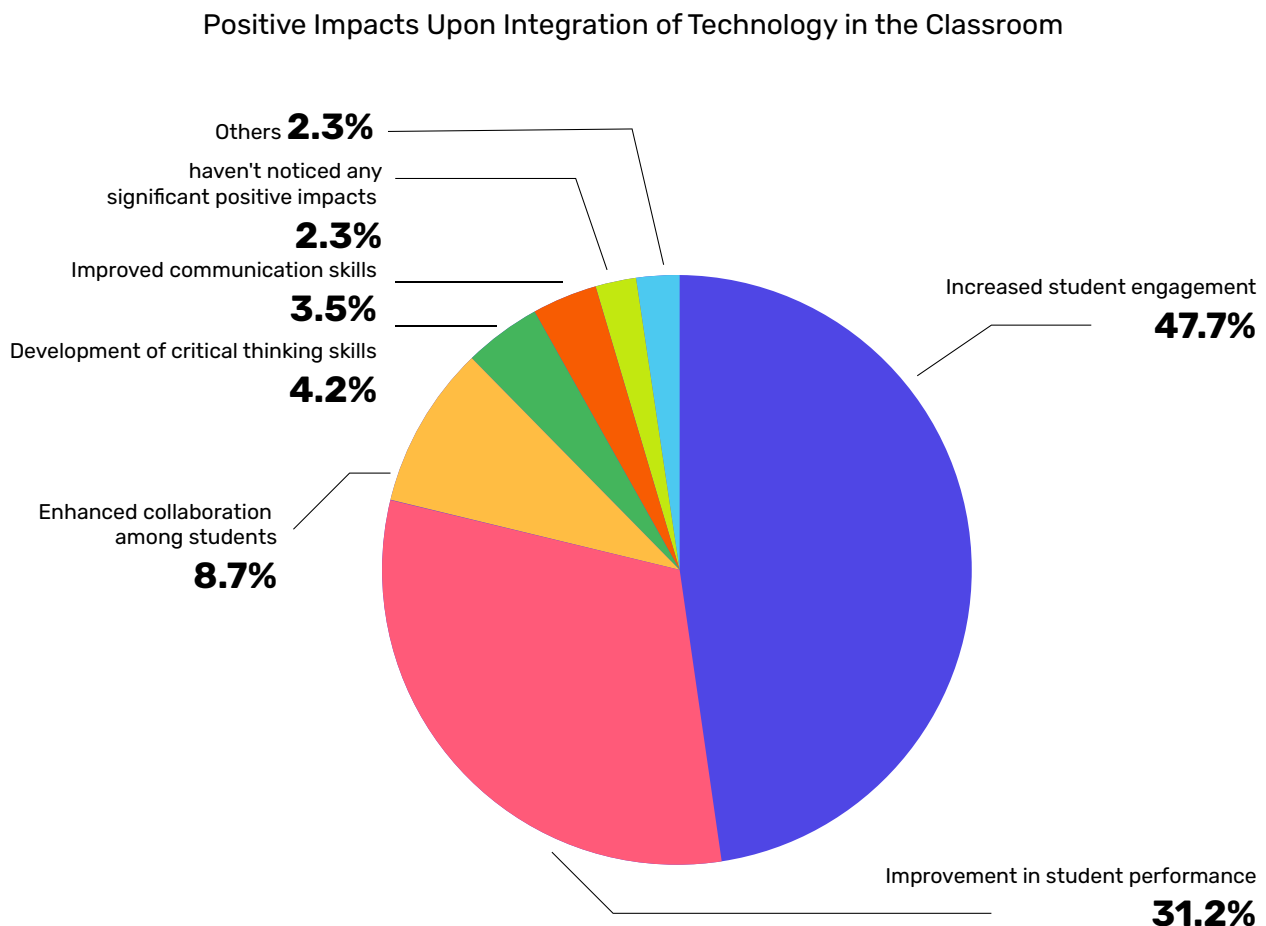


Despite a significant portion of educators (49.4%) have increased their use of technology in classroom instruction since transitioning back to in-person teaching after the pandemic, more than half of the educators (50.6%) reported that their use of technology remains about the same or a reduction in technology use in the classroom. See Figure 6.

This decrease in technology use could reflect a variety of factors, such as a return to more traditional teaching methods due to pedagogical preferences or effectiveness of traditional methods, challenges in maintaining student engagement with technology in the classroom, technology fatigue, on top of the barriers mentioned in the previous section.

Positive Impacts of Technology Integration in the Classroom

Figure 7



Despite the challenges and barriers discussed above, the role of educational technology in fostering positive transformation is evident in the experiences of the majority, with **95.3% of educators reporting positive outcomes in their students' performance, engagement levels, and skills development** following the integration of technology in the classroom. Among **the 2.3% of educators**

who indicated that they haven't observed any positive impacts of technology usage in the classroom, most if not all of them expressed that technology devices to be highly inaccessible to their students. In the rare cases where technology is accessible, other constraints in place hinder the optimized utilization of technology including budget limitations and connectivity issues. See Figure 7.

Summaries

- **Technology Adoption:** Despite challenges, the majority of educators (91%) reported frequent use of technology in instructional activities, with 34% indicating high comfort levels.
- **Technology Accessibility and Equity:** Despite frequent technology use, only 16.7% found technology very accessible for students, highlighting disparities in technology access. Concerns about unequal access among students were prevalent (66.2%).
- **Regional Differences:** Priorities for technology adoption varied across regions, with a common emphasis on enhancing student engagement and learning outcomes. However, Europe prioritized efficiency, while North America emphasized technology's role in access to resources as well as collaborative and personalized learning.
- **Challenges in Technology Adoption:** Budget constraints emerged as the largest barrier globally, followed by infrastructure limitations and a lack of training for teachers. Asia faced a wider range of challenges, including resource constraints, time limitations, and parental constraints on technology use.
- **Post-Pandemic Technology Use:** While 49.4% of educators increased technology use post-pandemic, over half maintained or reduced usage, possibly due to a return to traditional methods or challenges in maintaining student engagement.
- **Positive Impacts of Technology:** Despite challenges, 95.3% of educators reported positive outcomes in student performance, engagement, and skills development following technology integration.

Overcoming Challenges

Technology holds immense potential to transform education, but integrating it effectively requires addressing the above challenges. By prioritizing equitable access, empowering educators through comprehensive training, and fostering a culture of innovation that embraces change, educators can unlock the power of technology to create a future-ready learning environment where all students can thrive.



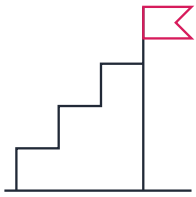
Addressing Technology Accessibility Remains the Top Priority

While a majority of educators report frequent technology use, concerns regarding accessibility remain prominent. Accessibility to technology for both educators and students must be prioritized to ensure equal access to quality education and **empower all learners to thrive in the 21st century**.

On the educators' side, it is essential to implement funding initiatives aimed at addressing budget constraints and ensuring sustained investment in educational technology. For students, initiatives focused on providing devices, improving internet connectivity, and ensuring equitable distribution of resources can play a pivotal role in narrowing the gap in technological access. Schools should prioritize infrastructure investments, including reliable internet connectivity and updated equipment. Additionally, collaborating closely with policymakers, education leaders, and private education technology companies can facilitate the allocation of resources to support equitable access to technological tools for both educators and students.

Some actionable steps educators can implement include:

- **Secure Funding Initiatives:** Lobby for sustained investment in educational technology through grants, partnerships, or public funding to support ongoing access to devices and connectivity.
- **Resource Allocation:** Prioritize the equitable distribution of technology resources, including devices and internet access, across diverse student populations.
- **Infrastructure Development:** Invest in improving school infrastructure, such as robust networks and digital devices, to ensure reliable and accessible technology for all students.
- **Funding Initiatives:** Advocate for increased funding allocated specifically for educational technology. This ensures sustained investment in acquiring devices, software licenses, and maintaining infrastructure.
- **Closing the Gap:** Implement initiatives focused on providing devices and high-speed internet access to students from under-resourced backgrounds. Partner with policymakers, education leaders, and technology companies to bridge the digital divide.



Emphasizing Training and Resources

As regularly cited by educators worldwide, the lack of training and resources available in seamless technology integration in the classroom remains a significant barrier, leaving educators feeling ill-equipped to navigate the complexities of technology integration in the classroom. Due to a lack of resources and professional development opportunities, more often than not, educators have to scour their own pockets or seek out free resources online to acquire the necessary skills and knowledge for effective technology integration.

This is time-consuming and may not always result in comprehensive training tailored to educators' specific needs and teaching contexts. As such, recognizing the value and urgency to upskill educators with digital knowledge, as well as advocating for more teacher training initiatives and accessibility to relevant resources and support mechanisms can foster a cohort of modern educators equipped with the skills and knowledge to build a future-ready generation.

To address this challenge, institutions can consider the following:

- **Teacher Training Programs:** Develop and implement comprehensive training programs for educators, focusing on the pedagogical applications of technology and best practices for integrating technology into different teaching styles and curriculum areas.
- **Professional Development:** Provide regular, high-quality training for educators to build confidence in integrating technology and using new tools effectively.
- **Resource Hubs:** Create or curate centralized repositories of teaching resources and digital tools tailored to different subjects and age groups.
- **Mentorship Programs:** Establish mentorship networks where experienced educators support peers in navigating technology adoption and classroom integration.



Promoting a Growth Mindset and Combating Resistance

Despite the rapid pace of technological advancement and the evident efforts made by educators, a significant number of educators worldwide still exhibit significant resistance to technology, preferring traditional methods such as the "chalk and talk" approach. This is understandable because traditional teaching methods have been deeply ingrained in educational practices and have not failed for generations.

Furthermore, external constraints and limitations such as budget and infrastructure limitations, alongside lack of training and resources further discourage educators to pivot their teaching methods to incorporate more advanced education technology

tools and platforms. To change this, it's essential to address both the internal mental resistance and the external constraints that hinder technology adoption in education. Providing comprehensive training and resources tailored to educators' needs can help bridge the gap and build confidence in using technology effectively, but it is insufficient without fostering a culture of innovation and collaboration within educational communities to encourage educators to explore and experiment with new technology-enhanced teaching methods.

Here are some ideas to approach both internal and external challenges that hinder technology adoption:

- **Tailored Training:** Develop training programs that address educators' specific concerns about technology integration. These programs can showcase successful technology implementation examples within similar teaching styles and curriculum areas.
- **Encourage Networking:** Connect experienced educators who are confident users of technology with educators who are hesitant. This peer-to-peer mentorship can provide valuable support and address individual challenges.
- **Community Building:** Create online communities or forums where educators can share best practices, troubleshoot issues, and learn from each other's experiences with technology integration.
- **Reduced Workload:** Explore ways to reduce the workload of educators who are taking the initiative to integrate technology. This might involve providing them with additional planning time or classroom support staff.
- **Highlight Success Stories:** Showcase success stories of how technology has transformed learning experiences and improved student outcomes. This can help to inspire and motivate other educators to embrace technology.

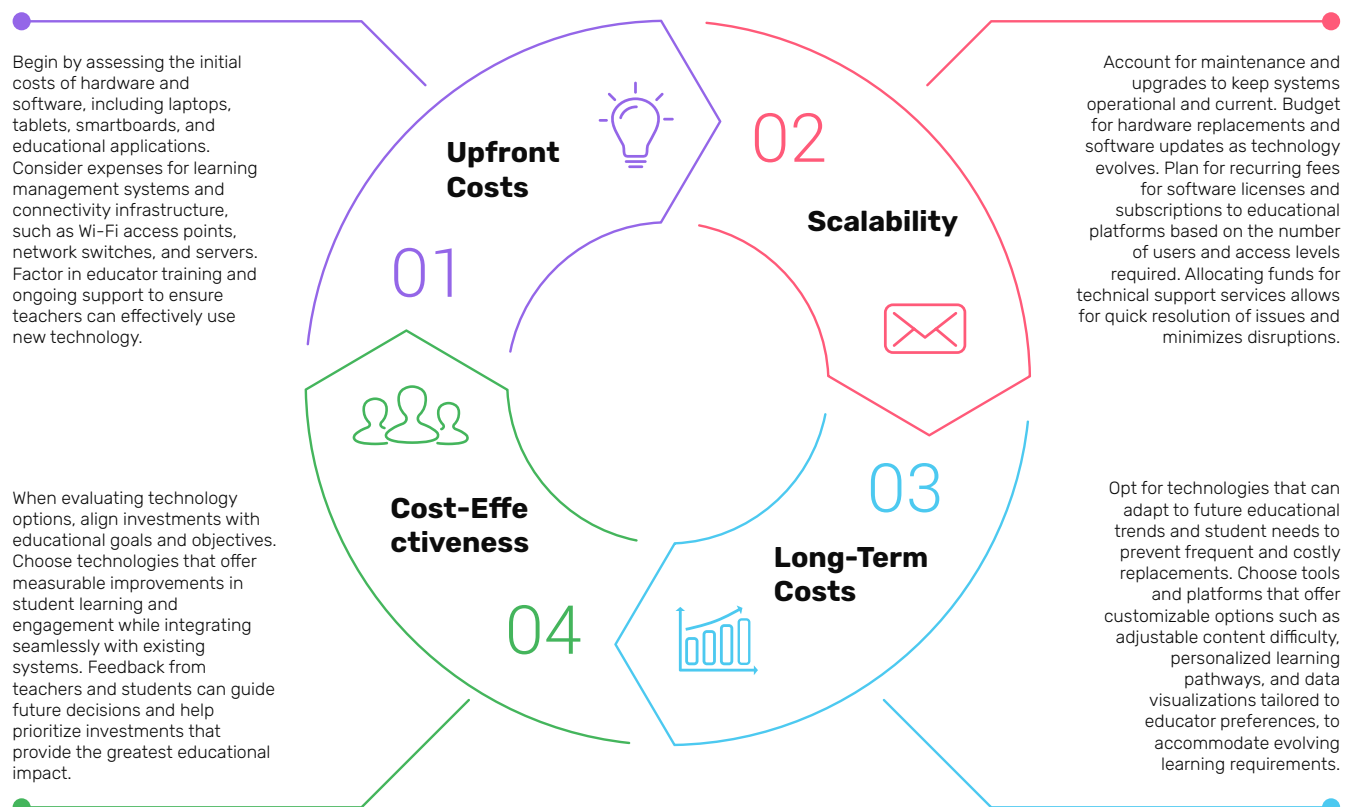
From Theory to Practice: The Ultimate Digital Integration Framework

Transitioning from theory to practice in digital integration requires a thoughtful and comprehensive framework. This framework ensures a smooth transition, facilitating successful tech adoption while minimizing potential challenges. The following key considerations are essential for this transition and can guide educators and administrators as they implement technology in their classrooms.

Budget Planning: Building a Sustainable Foundation

A key takeaway from the results shown above is that educators face significant budgetary limitations, which act as a major barrier to technology adoption. A critical first step in successful digital integration is crafting a well-thought-out budget. Resource constraints can often be a barrier to tech adoption. This framework provides a roadmap for educators

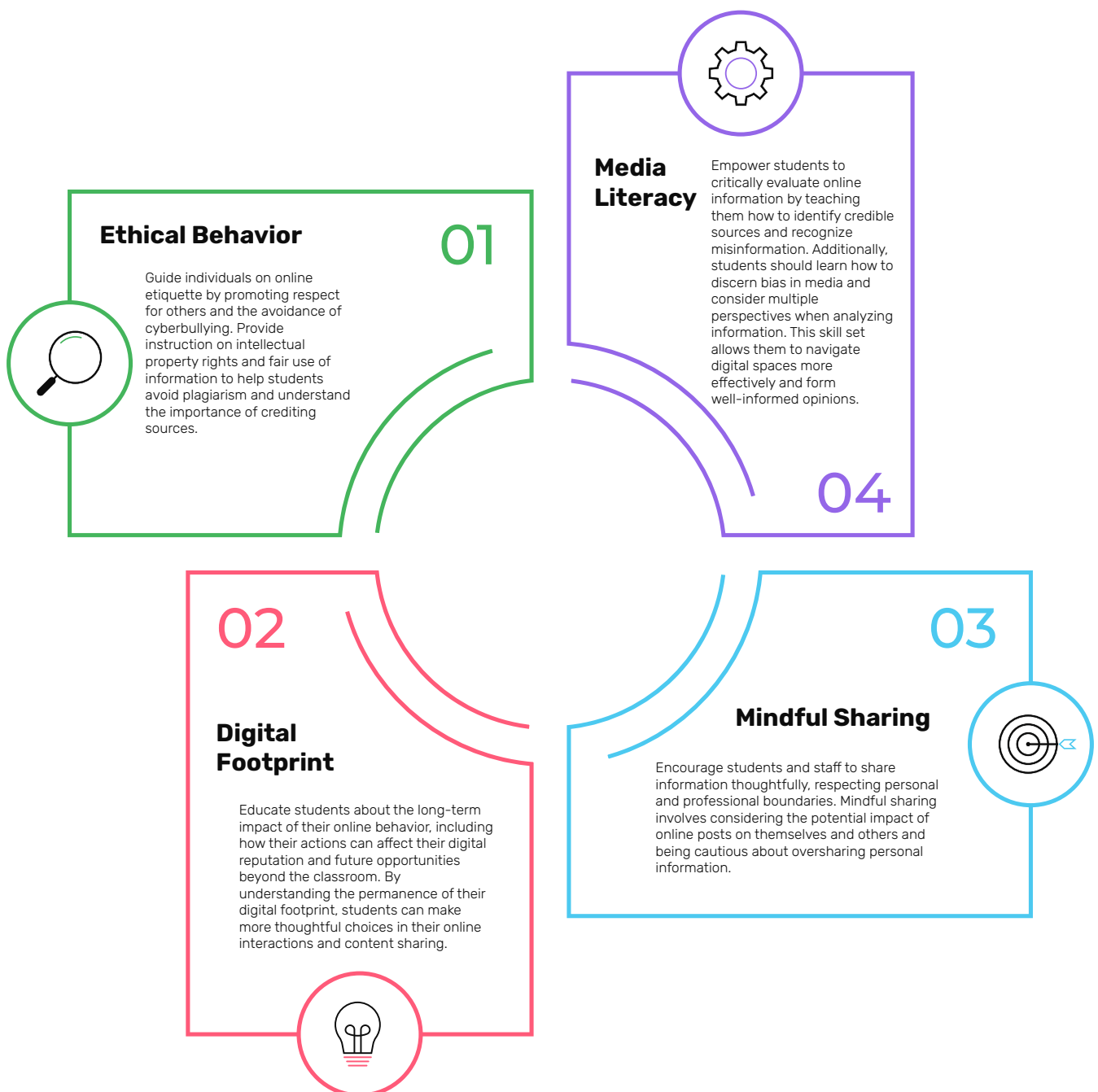
and administrators to navigate the budgeting process, ensuring they allocate funds strategically for technology purchases, infrastructure upgrades, and ongoing maintenance. Start by considering these factors to create a sustainable financial foundation for their digital learning initiatives.



Digital Citizenship: Empowering Responsible Technology Users

While a high percentage of educators report frequent technology use, a significant gap exists between reported use and equitable access for students. This disparity highlights a crucial aspect of digital citizenship: ensuring everyone has the opportunity to participate effectively in the digital world.

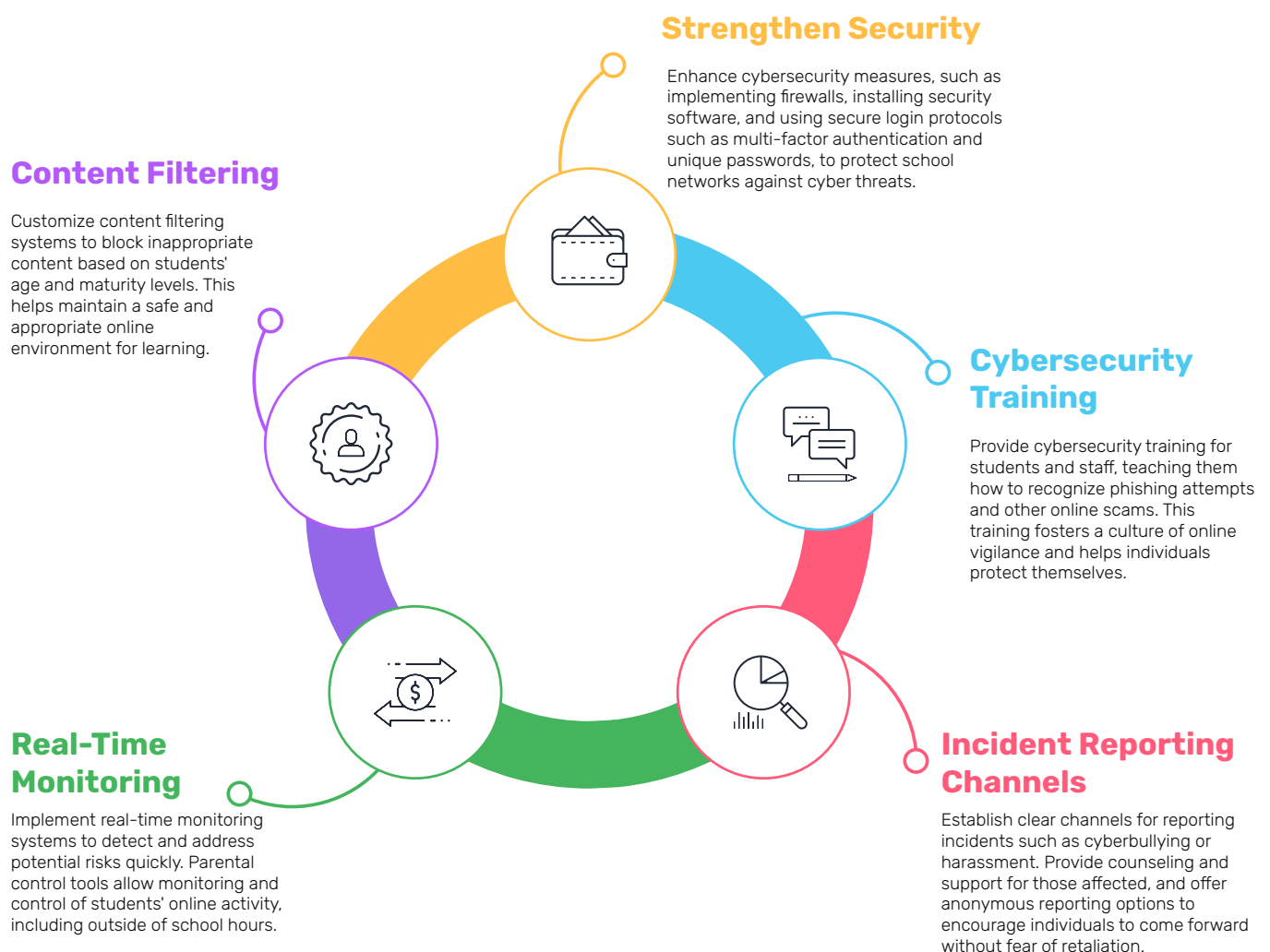
Teaching digital citizenship is crucial for students and staff to navigate the digital world responsibly and respectfully. This involves a comprehensive approach that includes ethical behavior, media literacy, and understanding the impact of one's digital footprint.



Online Safety: Creating a Secure Learning Environment

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Teaching digital citizenship is crucial for students and staff to navigate the digital world responsibly and respectfully. This involves a comprehensive approach that includes ethical behavior, media literacy, and understanding the impact of one's digital footprint.



Privacy: Protecting Sensitive Information

One aspect that the data above lacks in highlighting is the importance of data privacy among educators. This can be attributed to lack of awareness about potential data privacy risks and the measures needed to protect student information. Educators must be equipped with the knowledge to identify potential threats, understand data protection regulations, and implement privacy-focused strategies to safeguard students' sensitive information effectively.

Respecting privacy in education is essential to protect sensitive information and comply with legal regulations. This is a universal concern that applies to

educational institutions across all continents. There are certain practices schools and educators can implement globally to safeguard student and staff data:

Secure Data Storage and Access Controls



Institutions should use secure methods of data storage, such as encrypted databases, and implement access controls to ensure that only authorized personnel can access sensitive information.

Compliance with Local Privacy Laws



Be familiar with the privacy regulations in your region. Different countries and continents have varying laws governing data protection, such as the Family Educational Rights and Privacy Act (FERPA) in the United States, the European Data Protection Directive, and other regional-specific privacy laws.

Transparency in Data Collection Practices



Communicate with parents, students, and staff about data collection practices and how their data will be stored and used. Provide comprehensive privacy policies and notices outlining data handling and sharing practices.

Consent and Data Control



Obtain appropriate consent from individuals (or parents in the case of minors) before collecting or using personal data. Provide individuals with options to control their data, including opting out of certain data collection practices or modifying data usage permissions.

Anonymization and Minimization



Where feasible, anonymize data to protect personal information and apply data minimization principles by collecting only the data necessary for educational purposes.

Regular Audits and Reviews



Conduct periodic audits and reviews of data handling practices to ensure compliance with privacy laws and identify potential risks or vulnerabilities in data management.

Education and Training



Provide training for staff and students on privacy best practices, including how to handle data responsibly and securely.

Ethical Considerations: Fostering a Responsible Learning Environment

The findings presented underscore the importance of addressing ethical considerations in educational technology integration. As educators increasingly rely on technology to enhance learning experiences, it's crucial to prioritize ethical principles such as equity, transparency, and accountability. For instance, the disparities in technology access among students highlight the ethical imperative to ensure

equal opportunities for all learners, regardless of socioeconomic status or geographic location.

Promoting responsible technology use and ethical considerations fosters a positive educational environment. Equity and accessibility should guide digital integration to provide equal opportunities for all students, regardless of socioeconomic background.



Equity and Accessibility

Strive to provide equal access to technology for all students, regardless of their socioeconomic background. Explore creative solutions such as loaner programs, refurbished devices, or open-source software options to ensure inclusivity. Conduct a needs assessment to identify any barriers to access and develop strategies to bridge the digital divide.



Constructive Technology Use

Encourage the use of technology for constructive purposes such as collaborative learning, creativity, problem-solving, and global citizenship. Integrate technology with projects and activities that have a positive impact on the world. Challenge students to use technology to create solutions for real-world problems or develop projects that promote social good.



Professional Conduct

Establish clear guidelines for staff on the [appropriate use of technology in educational settings](#). Emphasize professional integrity, data privacy, and responsible online behavior to maintain a safe and ethical learning environment. Develop a staff handbook with a section outlining responsible technology use policies for educators.

Educators and administrators can create a sustainable, safe, and equitable digital learning environment by addressing these key considerations within the digital integration framework. This, in turn, will empower students and teachers to maximize the benefits of educational technology while mitigating potential risks.

Investing in ongoing professional development opportunities for educators to integrate technology effectively will further enhance the success of the digital integration plan. As technology continues to evolve, the framework can be revisited and adapted to ensure it remains relevant and addresses emerging challenges and opportunities within the digital learning landscape.

Pedagogical Powerhouse:

Professional Development Resources for Educators

Website	URL	Description
Academic Earth	https://academicearth.org/	Academic Earth is an educational platform offering free access to online courses and lectures from top universities worldwide. It covers various subjects, allowing learners to expand their knowledge and skills at their own pace.
Annenberg Learner	https://www.learner.org/	Annenberg Learner is an educational platform offering resources and multimedia content for teachers and students across various subjects. The site provides free instructional materials, professional development programs, and videos to support teaching and learning.
Apple Education	https://education.apple.com/	Apple Education provides resources and tools for educators to integrate technology into their teaching. The site offers professional learning materials, classroom tools, and support for using Apple products to enhance learning experiences.
Association for Supervision and Curriculum Development (ASCD)	https://www.ascd.org/	ASCD is a professional organization that provides access to webinars, online courses, and conferences, along with journals, books, and articles on topics like curriculum development and teaching strategies. Membership offers exclusive resources and a community for educators to connect and collaborate.
Better Lesson	https://betterlesson.com/	BetterLesson is a platform that connects educators with expert coaches and high-quality lesson plans to improve teaching practices. The site emphasizes personalized professional development and collaboration to help teachers meet the needs of diverse student populations.
ClassPoint Blog	https://www.classpoint.io/blog	ClassPoint blog is an online resource that provides insights, tips, and updates on educational technology and teaching strategies. It covers a wide range of topics related to digital tools, PowerPoint templates, interactive teaching methods, and classroom management, helping educators stay informed and inspired in their teaching practices.

Website	URL	Description
Ditch that Textbook	https://ditchthattextbook.com/	Ditch That Textbook is a blog offering innovative teaching strategies and resources for educators looking to move beyond traditional textbooks. The site features articles, podcasts, and free resources to help teachers create engaging, technology-rich learning environments.
Edcafe AI Blog	https://www.edcafe.ai/blog	The EdCafe AI blog is a valuable resource for educators, featuring insights on integrating artificial intelligence in education. It offers practical guides and Edcafe AI use cases, innovative teaching strategies, and the latest trends in AI to enhance teaching and learning experiences in the classroom.
EdSurge	https://www.edsurge.com/	EdSurge is a leading source of news and insights on education technology and innovation. The site covers topics such as edtech trends, policy changes, and advancements in teaching and learning, serving as a valuable resource for educators and industry professionals.
EdTech Magazine	https://edtechmagazine.com/	EdTech Magazine explores technology and education issues that IT leaders and educators face when they're evaluating and implementing a solution for K-12 and Higher Ed.
Education Week	https://www.edweek.org/	Education Week (EdWeek) is an online news source that offers the latest news, analysis, and insights on K-12 education for educators, policymakers, and education professionals. It includes articles, reports, and resources on teaching strategies, policy changes, and education technology.
Educators Technology	https://www.educatorstechnology.com/	Educators Technology is an online resource providing teachers with the latest educational technology tools, apps, and resources to enhance teaching and learning. It offers guides, reviews, and tips on integrating technology effectively in the classroom.
EduNav	https://edunav.com	EduNav provides advanced academic planning and scheduling solutions for higher education institutions. The website offers information on their intelligent software that helps students and academic advisors streamline educational paths, optimize course schedules, and enhance student success and retention.
Edutopia	https://www.edutopia.org/	Edutopia is an online platform offering educational resources, insights, and inspiration to educators. The site features articles, videos, and research-based strategies on topics such as teaching methods, classroom management, and social-emotional learning.
edWeb	https://home.edweb.net/	edWeb is a free online community for professional educators, offering networking, resource sharing, collaboration, and professional development webinars.
eLearning Industry	https://elearningindustry.com/	eLearning Industry is a comprehensive online hub for e-learning professionals, offering industry news, articles, and resources on topics such as online training, instructional design, and learning technology. The site also provides a directory of e-learning companies, tools, and courses for industry professionals.

Website	URL	Description
Embodied Learning	https://www.embodiedlearnings.com/	Embodied Learnings offers education programs and workshops centered around experiential and embodied learning techniques. The site focuses on using body awareness and movement practices to enhance teaching and learning experiences across various subjects.
Free Technology for Teachers	https://freetech4teach.teachermade.com/	Free Technology for Teachers is a platform that provides educators with resources and guides on using technology in teaching. The site includes app reviews, lesson ideas, and tutorials to help teachers enhance classroom instruction with digital tools.
Future Learn	https://www.futurelearn.com/	FutureLearn offers online courses and degrees from top universities and institutions around the world, providing learners with access to a wide range of subjects. The platform emphasizes social learning and interactive course content, encouraging engagement and collaboration.
KQED Education	https://www.kqed.org/education	KQED Education offers a variety of multimedia educational resources and professional development opportunities for teachers. The site provides interactive content, lesson plans, and instructional strategies to engage students in subjects such as science, history, and media literacy.
Learning Forward	https://learningforward.org/	Learning Forward is a professional association focused on improving the quality of education through professional development and learning opportunities for educators. The site offers resources, research, and guidance for educators to enhance their practice and advance student achievement.
Microsoft Learn Educator Center	https://learn.microsoft.com/en-us/training/educator-center/	Microsoft Learn Educator Center offers resources and professional development for educators to enhance teaching with Microsoft tools and technologies. The site features learning paths, lesson plans, and certifications to support teachers in integrating technology into their classrooms.
The National Council of Teachers of Mathematics (NCTM)	https://www.nctm.org	The National Council of Teachers of Mathematics is an organization dedicated to advancing mathematics education. It offers resources for educators, including research, professional development opportunities, publications, and standards to support effective teaching and learning in mathematics.
NEA Professional Growth Program	https://www.nea.org/professional-excellence/professional-learning/teachers	The NEA's Professional Excellence section offers teachers a range of professional learning resources designed to enhance their skills and expertise in the classroom. The site provides access to professional development opportunities, teaching strategies, classroom management tips, and other resources to support teachers' growth and success in their careers.
SciLearn	https://www.scilearn.com/	SciLearn offers evidence-based educational solutions designed to improve language and literacy skills in students. The website provides resources and programs based on neuroscience research to help learners develop critical language and reading abilities, ultimately enhancing their academic performance and long-term success.

Website	URL	Description
Shake Up Learning	https://shakeuplearning.com/	Shake Up Learning is an educational resource website offering innovative teaching strategies, digital tools, and professional development opportunities. It features podcasts, blog posts, and courses to help educators incorporate technology into their teaching for more engaging learning experiences.
Student Wellbeing Hub	https://studentwellbeinghub.edu.au/	Student Wellbeing Hub is an Australian resource for educators, parents, and students that focuses on promoting mental health and wellbeing in schools. The platform offers tools, resources, and information to support students' social and emotional development.
StudySync	https://www.studysync.com/	StudySync is a comprehensive ELA digital curriculum and assessment tools for grades 6-12, offering free webinars and resources for educators.
Teacher Vision	https://www.teachervision.com/	Teacher Vision is an educational resource site offering teachers lesson plans, teaching resources, and classroom management tools for various grade levels and subjects. It provides access to worksheets, activities, and advice to support teachers in creating engaging and effective learning experiences for their students.
Teachers Need Teachers	https://teachersneedteachers.com/	Teachers Need Teachers is a podcast providing resources and support for educators at all levels, with a focus on new teachers. It offers advice on classroom management, lesson planning, and professional growth to help teachers succeed in their careers.
Teaching Channel	https://www.teachingchannel.com/	Teaching Channel is a comprehensive resource for educators, offering a vast library of video content showcasing effective teaching practices and instructional strategies across various subjects and grade levels. The platform aims to support professional development and collaboration among teachers by providing access to expert insights, lesson demonstrations, and a community for sharing ideas and experiences.
Teaching English	https://www.teachingenglish.org.uk/	Managed by the British Council, Teaching English offers resources and professional development opportunities for English language teachers worldwide. It provides lesson plans, teaching materials, and tips for enhancing classroom practice and student engagement.
TeachThought	https://www.teachthought.com/	TeachThought is a resource website for educators, offering insights on innovative teaching strategies, lesson planning, educational technology, and professional development. It provides articles, resources, and ideas to support modern teaching and learning practices, with a focus on critical thinking, creativity, and collaboration.
Ted-Ed	https://ed.ted.com/	TED-Ed celebrates the ideas of teachers and students around the world. TED-Ed is an educational platform that provides a collection of video lessons and interactive content on various topics. It offers educators and students access to engaging TED Talks, lesson plans, and discussion questions to enhance learning experiences and promote curiosity and critical thinking. Users can create their own lessons using TED Talks and share them with others.

Educators' Arsenal:

A-Z Repository of EdTech Tools

Tool Name	Category	Feature Highlights	Cost
7Taps	Microlearning Platform	- The platform focuses on short, focused learning modules that are easy to consume and retain - AI capabilities for instant course generation - Allows for easy access to courses on mobile devices, enabling learners to access content on the go	Free plan available. Pro plan costs 99USD/month (\$84 per month if billed annually).
Ahaslides	Audience Engagement Tool	- Creates dynamic presentations with live polls, quizzes, word clouds, and other interactive elements to engage audiences in real-time - Offers features such as live chat and Q&A sessions, enabling audience members to interact with presenters and ask questions during a presentation - Provides detailed insights and analytics on audience participation and responses	Free plan available (limited to 7 audience). Paid plans start at 7.95USD/month.
AI Detector Pro	AI Detector	- Highlights text that triggers AI detectors - Suggests wording changes "Tone Map" that can detect if a document sounds like it was AI-written	Free plan available. Basic plan at 13.99USD/month. Unlimited plan at 24.99USD/month.
AITutor.co.uk	AI Tutor	- Study and revision toolkit for GCSE and A-Level maths students - Finds strengths and weaknesses to create an optimal learning path - Features a large bank of exam style questions and practices	Basic plan available with Premium starting from 10GBP/month
Animoto	Video Creator	- Offers a variety of pre-built templates that users can customize with their own content - Easy-to-use drag-and-drop interface that allows users to quickly and efficiently create professional-quality videos - Access to a library of stock photos, videos, and music tracks that users can incorporate into their projects	Free plan available with Basic paid plan starting at 8USD/month (billed annually).

Tool Name	Category	Feature Highlights	Cost
Annotate.net	Annotation Tools	- Allows teachers to wirelessly present and annotate on a projector or screen - Teachers can schedule assessments and monitor student progress in real time - Students can participate using their own devices	Free plan available. Pro plans for instructors and students at 17.99USD/annum and 7.99USD/annum respectively.
Anyword	AI Writing Tool	- Uses advanced AI models to generate high-quality copy for various types of content, including ads, emails, social media posts, and more - Provides real-time predictive performance scores for generated copy, helping users choose the most effective text for their needs - Allows users to customize content for different audiences and goals, optimizing copy to suit specific use cases and improve engagement	7-day trial available. Paid plans start at 39USD/month or 49USD/month billed monthly.
Articulate	eLearning Authoring Tool	- Easy-to-use course authoring tools that enable users to create interactive, engaging, and responsive e-learning courses without needing advanced technical skills - Offers a content library with thousands of customizable templates, media assets, and design elements, streamlining the process of creating visually appealing and effective courses - Offers collaborative features that allow multiple team members to work on the same course simultaneously, enabling efficient feedback, review, and updates during the course development process	Academic plan costs 549USD/user/year or 699USD/user/year for teams of one or more.
Assemblr Edu	AR & VR Tool	- Offers a comprehensive and engaging 3D learning experience so students can explore and interact with 3D content in real-time - Educators and students can create, customize, and share interactive 3D content such as models, presentations, and animations - Supports VR headsets to provide an immersive educational experience that enhances learning through virtual simulations and environments	Free plan available. Paid plans start at 2.99USD/month and School plan at 1USD /month/seat.
Baamboozle	Gamification/ Game-Based Platform	- Contains a library of pre-made games - Creates your own games from scratch to fit your needs - Includes Jeopardy-style format games to increase class engagement	Free plan available. Pro plan available at 7.99USD/month or 59.88USD/year

Tool Name	Category	Feature Highlights	Cost
Beautiful AI	Presentation Maker	- Provides access to a wide range of professionally designed templates, enabling users to create visually stunning presentations - Beautiful.ai offers smart features such as auto-formatting and design suggestions, streamlining the presentation creation process - Users can collaborate in real-time, share feedback, and work together seamlessly on presentations, enhancing teamwork and productivity	Free trial available. Paid plans start at 12USD/month (billed annually).
BigBlueButton	Open Source Virtual Classroom Software	- A conferencing platform designed for the classroom where users can host live virtual classes, webinars, and meetings with multiple participants - Users can collaborate in real-time using the interactive whiteboard, where they can share documents, draw diagrams, write notes, and engage in discussions - Provides live analytics to actively gauge student engagement	Pricing available upon request.
Bing Image Creator	Image Generator	- Leverages advanced AI technology to generate custom images based on user-provided text descriptions - Users can experiment with different artistic styles and visual elements, offering flexibility and creative freedom in the images they create - Features an intuitive design, making it easy for users of all skill levels to create unique and high-quality images with minimal effort	Free to use.
Blackboard Learn	Learning Management Systems (LMS)	- Preview, create, and upload course items, assignments, and tests - Grade assignments and update assessment settings - Participate in discussions and send announcements	30-day free trial available.
Blooket	Gamification/ Game-Based Platform	- Chooses or creates your own question set - Selects from a variety of unique game modes - Host games and analyze student performance based on results	Play for free with up to 60 students. Blooket Plus costs 4.99USD/month and Blooket Plus Flex at 9.99USD/month.

Tool Name	Category	Feature Highlights	Cost
Bloomz	Classroom Management System	- Comprehensive platform for teachers and parents to communicate effectively, including messaging, announcements, and updates to keep parents informed - Offers tools for managing classrooms efficiently, such as scheduling events, organizing to-do lists, and tracking student attendance - Allows teachers to track student behavior and academic progress in real-time, share reports and updates with parents	Pricing available upon request.
Bongo Learn	Virtual Classroom & Video Learning Platform	- Teachers can create and manage video assignments for students, enabling them to submit video responses for assessments and projects - Virtual classroom capabilities for educators to hold live online classes with features such as screen sharing, live polling, and breakout rooms - Tools to provide automated feedback on video assignments, such as speech-to-text and sentiment analysis, to help students improve their skills	Pricing available upon request.
Book Creator	Digital Book Creator	- Users can create interactive and multimedia-rich digital books using a variety of content such as text, images, audio, and video - Users can work collaboratively on book projects with others and share created books publicly, privately, or with specific groups, and export books to different formats - Offers a range of accessibility options, such as text-to-speech and dyslexia-friendly fonts, to support learners of all abilities and promote inclusive education.	Free starter plan available. Premium plan costs 13USD/month or 130USD/year.
BookWidgets	Assessment & Interactive Learning Tool	- Offers a range of customizable widgets such as quizzes, flashcards, maps, and timelines that teachers can integrate into their lessons for interactive and engaging learning experiences - Seamlessly integrates with popular learning management systems (LMS) like Google Classroom, Microsoft Teams, Canvas, and Moodle - Teachers can provide instant feedback on student work and track progress through the tool's grading and analytics features	Plans start at 9.95USD/month or 55USD/year for an individual. Group plans start at 39.50USD/teacher/year.

Tool Name	Category	Feature Highlights	Cost
Bridge	Learning Management Systems (LMS)	- Creates, shares, and tracks training programs - Automatically notifies staff when new courses are available - Tracks course completion, overdue learners, and engagement	Pricing available upon request.
Brightful	Gamification/ Game-Based Platform	- Provides a range of interactive games and activities designed to foster connection and build rapport with students in both virtual and in-person classrooms - Teachers can tailor game sessions to fit their class size and subject matter, allowing for a more personalized and relevant experience for their students - Easy-to-use platform with intuitive setup so teachers can quickly integrate games and activities into their lessons without needing extensive technical knowledge	14-day trial available. Paid plan starts at 28USD/month.
Brisk Teaching	Teaching Assistant	- Teaching assistant platform offering educational resources and teaching aids. - Includes features such as lesson planning, grading, and student management tools. - Supports collaboration and communication among teachers, students, and parents.	Teachers can use and install the Chrome extension for free.
Bunceee	Content Creation Tool	- Create interactive and visually engaging content using a combination of images, videos, audio clips, text, and interactive elements - Collaborate on projects and presentations, share their creations easily, and provide feedback to each other - Offers a variety of templates and educational resources, including lesson plans and activities	Premium plans start at 7USD/month or 70USD/year.
Calvert Learning	Online Curriculum Platform	- Standards-aligned curriculum covering multiple subjects for K-12 students. - Engaging digital learning resources and personalized learning paths. - Teacher support and comprehensive assessments for tracking student progress.	Pricing available upon request.

Tool Name	Category	Feature Highlights	Cost
Camtasia	Video Creator	• Video editing and screen recording software for creating educational content. • User-friendly interface with a range of editing tools for adding effects and annotations. • Supports exporting videos in various formats for easy sharing and integration into courses.	Free to download, with individual subscription at 199.67USD/year.
Canva	Design Tool	• Intuitive design with library of templates and assets • Drag and drop capabilities for easy design process • Creates custom designs with AI through Magic Design™	Free plan available. Paid plan available at 164.99USD/year per person. Teams plan available at 360USD/year for 5 people.
Canvas LMS	Learning Management Systems (LMS)	• Users can intuitively create and share course content • Seamless integration with 450+ partnered tools (Zoom, Microsoft Teams, etc). • Access to a large global community of educators and professionals	100% free for students with a Free-for-Teacher plan available.
Century	Adaptive Learning Platform	• Utilizes artificial intelligence to provide personalized learning paths and resources based on each student's strengths, weaknesses, and learning style • Provides teachers with real-time data and insights into student progress, enabling them to tailor instruction and interventions to individual student needs • Offers a comprehensive library of curriculum-aligned content across various subjects and key stages, including lessons, assessments, and activities	Free trial available. Premium plans start at 27.99GBP/month or 18.66GBP/month (billed annually).
Classcraft	Gamification/ Game-Based Platform	• Transforms classroom learning into an engaging and interactive experience through game-based elements such as quests, challenges, and rewards • Provides tools to manage classroom behavior, encouraging positive interactions and fostering a collaborative and respectful environment • Motivates students to stay engaged in their learning journey by using avatars, powers, and teamwork	Teachers have access to a basic, free version with paid plan prices at 120USD/annum.

Tool Name	Category	Feature Highlights	Cost
ClassDojo	Classroom Management System	- Teachers can award points for positive behavior and track student progress - Teachers can share photos, announcements, and messages with parents - Teachers can showcase student work to parents	Free to use. Optional premium subscription available.
Classera	Learning Management Systems (LMS)/ Gamification/ Game-Based Platforms	- Provides a comprehensive learning management platform that enables educators to manage courses, assignments, assessments, and communication with students and parents - Incorporates gamification elements such as points, badges, and leaderboards to motivate and engage students in the learning process - Offers tools for collaboration and communication between teachers, students, and parents, including discussion forums, messaging, and interactive content sharing	Paid plans start at 150USD/month.
Classkick	Classroom Management Tool	- Provides real-time feedback on students' work, including text, audio, and drawing annotations - Students can work together on assignments, review peers' work, and give each other feedback - Teachers can create and customize assignments using various types of media, including images, audio, and text	Free plan available. Paid plans start at 399USD/year.
ClassPoint	Interactive Teaching Tool	- Integrates seamlessly with PowerPoint, allowing educators to add interactive elements like quizzes, polls, and annotations directly into their presentations - Facilitates classroom gamification through features like grouping, name picker, award stars, badges/levels and leaderboard. - Offers comprehensive analytics and feedback tools, empowering educators to assess student understanding and adapt their teaching strategies accordingly.	Free version and Pro version at 96USD/annum.
ClassPoint AI	AI Quiz Generator	- Automatically generates quizzes based on the content of the PowerPoint presentation, saving educators time in creating assessments. - Customizes quiz questions to match the learning objectives, Bloom's Taxonomy levels and offers a variety of question types. - Provides multi-language support.	96USD/annum (free if you are subscribed to ClassPoint pro plan)

Tool Name	Category	Feature Highlights	Cost
Clickview	Video Creator and Learning Platform	- Access to a vast collection of educational videos covering various subjects and topics - Ability to create personalized lesson plans using the videos and supplementary resources - Features for assessing student understanding and progress, including quizzes and interactive activities	Pricing available upon request.
CODAP	Data Analysis Tool	- Offers a powerful platform for data exploration and visualization, allowing students and educators to manipulate and analyze data sets. - Supports various subjects and topics, with tools to create graphs, charts, and other visual representations of data. - Provides instructional materials, activities, and support for teaching data literacy and statistical concepts.	Free to use.
Coggle	Mind Mapping Tool	- Allows multiple users to work together in real-time on a single mind map, helpful for brainstorming sessions, project planning, and group learning - Offers an easy-to-use interface for creating mind maps with features such as color-coding, icons, images, and connections between ideas - Exports mind maps in various formats such as PDF, PNG, and SVG for easy sharing and printing, also integrating with Google Drive for a simple save and access	Free plan available. Paid plans start at 5USD/month.
Consensus	Researching Tool	- Uses advanced AI technology, including language models and vector search, to analyze and synthesize insights from a database of over 200 million research papers - The tool can handle various search queries using custom fine-tuned language models to generate question-relevant conclusions based on user queries and abstracts of the papers - Users can use filters for study design and methodology, access quality indicators such as citation counts and journal quality, and enjoy auto-generated citations in multiple formats	Free plan available. Paid plans start at 8.99USD/per month (billed annually) or 11.99USD/month (billed monthly)

Tool Name	Category	Feature Highlights	Cost
Copy.ai	AI Content Generator	- Uses AI technology to generate high-quality written content for various purposes such as marketing, social media, blogging, and more - Users can create a wide range of content types, including headlines, product descriptions, blog introductions, and ad copy - Offers a simple and intuitive interface that allows users to quickly generate content with just a few inputs	Free plan available. Paid plans start at 49USD/month or 36USD/month if billed yearly.
CoSpaces	AR & VR Tool	- Creates 3D objects with block-based coding or advanced scripting - Students can explore their creation with VR or AR - Real-time collaboration and virtual gallery walk straight on the platform	Free basic plan available. Pro unlimited plan at 50USD/year.
Coursera	Professional Development	- Offers thousands of courses across various subjects, including technology, business, health, humanities, and more, designed by experts and top universities - Provides flexible learning options, including on-demand courses that allow learners to study at their own pace - Offers certificates upon course completion, as well as full degree programs from partner institutions	Users can join and enroll in courses for free, while certifications and degrees require payment. Full pricing available upon request.
Crowdpurr	Audience Engagement Tool	- Enables users to conduct live polls and surveys, as well as interactive question-and-answer sessions, making events more engaging and participatory for attendees - Offers tools for running live trivia games and competitions, allowing event hosts to create fun and interactive experiences for participants - Provides a range of features such as word clouds, text wall, and heatmaps to visualize audience responses and keep participants engaged during events	Free Basic plan available. Paid plans start at 24.99USD/month (billed annually) or 49.99USD/month (billed monthly).
Curipod	Audience Engagement Tool & Presentation Maker	- Uses AI to create lessons with a variety of interactive content, including images, videos, and questions - Users can create engaging and interactive presentations that include various elements such as quizzes, polls, and word clouds to actively involve students - Facilitates real-time student participation and engagement, enabling teachers to gather instant feedback and responses from students,	3,999USD per school or district.

Tool Name	Category	Feature Highlights	Cost
CYPHER Learning	Learning Management Systems (LMS)	- Combines LMS, LXP, and course development to create courses faster - Built-in tools empower educators to create and manage their own materials - Tailored solutions for schools, businesses & individuals, with customization options	Pricing available upon request.
D2L Brightspace	Learning Management Systems (LMS)	- Creates engaging, personalized course content at scale - Delivers high-quality learning experiences on any device at anytime - AI tools to create impactful learning experiences	Free trial available.
Decktopus AI	Presentation Maker	- Creates presentation slides in seconds with AI - Easily edits presentations with a drag-and-drop editor - AI Presenter Coach to give tips and tricks on presentation delivery	Free plan available. Pro AI plan starts at 9.99USD/month billed annually.
Deep AI	Image Generator	- Uses artificial intelligence to generate images from textual prompts and descriptions - Experiments with different text inputs to generate a variety of unique images - Options to adjust or fine-tune the generated images according to the user's preferences	Free to use.
Deepbrain.io	Video Creator	- Creates videos from text prompts, URLs, articles, and more - Uses AI avatars and realistic voices to deliver information - Can be used in a variety of industries, including education, commerce, and news media	Starter plan at 24USD/month. Pro plan at 180USD/month.
Desmos	Math Teaching Assistant	- Allows for interactive graphing of equations and functions with a user-friendly interface - Provides engaging, standards-aligned math activities that can be used in classrooms - Supports collaboration between students and teachers through activities and assignments, allowing for real-time feedback and sharing of graphs and data	Free to use.

Tool Name	Category	Feature Highlights	Cost
Diffit	Adaptive Learning Platform/Lesson Plan Generator	- Creates and customizes learning materials to match their students' levels and needs. - Generates a variety of content, such as questions, quizzes, and summaries, from any online text in just a few clicks	Pricing available upon request.
Drawboard	Annotation Tool	- Annotates, shares, and stores PDFs - Collaborates and communicates directly on the PDFs in real time - Syncs documents across devices. Available for Android, iOS, macOS, and Windows	Free plan and Pro plans starting at 4.19USD/month.
EdApp	Learning Management Systems (LMS)	- Features an extensive library of ready-made courses - Create customized courses in minutes with 80+ templates - Includes a creator tool, analytics suite, and AI content assistant	Free plan available with Pro plan starting at 2.95USD/user/month.
Edcafe AI	Teaching Assistant	- Creates AI-assisted instructional devices like custom chatbots, teaching resources, flashcards, interactive quiz, slides, etc. - Aligns AI-generated content with existing knowledge either from webpages or documents - Mobilizes AI to directly interact with students, outperforming the usual text-based output - Allows educators to store AI teaching materials in a Google Drive-like space for easier collaboration with colleagues	Free version and Pro version at 96USD/annum
Eduaide.AI	Lesson Plan Generator	- Features 100+ resource types and learning objects - Teacher Management tool that can create announcements, newsletters & more - AI Feedback Bot that checks grammar errors for assessments	Free plan available, Pro plan priced at \$5.99/month
Educaplay	Gamification/ Game-Based Platform	- Game-based learning platform with a variety of interactive educational games. - Customizable quizzes, puzzles, and activities to engage students in different subjects. - Easy-to-use and share activities with students or other educators.	Free plan available. Paid licenses start at 4EUR/month (billed annually) or 8EUR/month (billed monthly).
Education Copilot	Lesson Plan Generator	- Creates lesson plans and other education materials like flashcards and videos - Provides access to a range of instructional resources and assessments - Supports different subjects and grade levels	9USD/month

Tool Name	Category	Feature Highlights	Cost
Efofex	Teaching Assistant	- Specializes in creating mathematical and scientific documents and teaching materials with ease and precision. - Offers a wide range of tools for creating diagrams, graphs, and mathematical expressions. - Provides templates and resources tailored for educators and students in STEM fields.	Pricing available upon request.
Exact Path	Adaptive Learning Platform	- Offers personalized learning experiences through adaptive assessments that pinpoint each student's academic level in subjects like math, reading, and language arts - Provides targeted instruction and practice to help students strengthen their skills in specific areas based on assessment results - Educators can track student progress with real-time data and comprehensive reports	Pricing available upon request.
ExamSoft	Assessment Helper	- Provides a secure platform for exams and assessments - Prevents and deters academic dishonesty with a secure software - Offers data to improve learning outcomes and teaching strategies	Pricing available upon request.
Explain Everything	Digital Whiteboard	- An interactive whiteboard where users can draw, annotate, and add multimedia elements such as images, videos, and audio recordings to create engaging presentations and lessons - Allows real-time collaboration, enabling multiple users to work together on the same whiteboard from different locations - Users can record their whiteboard sessions, including audio and video narration, and share them easily with others	Free limited plan available. Solo Teacher plan costs 34.99USD/year and Class plan is priced at 129.99 USD/ year (for 1 teacher and up to 100 students).
Fathom	AI Note-Taking Aid	- Provides real-time transcription, highlights key moments, and generates meeting summaries for better meeting efficiency. - Offers a searchable transcript of meetings, allowing users to quickly locate specific information and key moments. - Supports collaboration by enabling participants to add notes, bookmarks, and comments during or after meetings.	Free to use.

Tool Name	Category	Feature Highlights	Cost
Figjam	Project Management	- Facilitates collaborative brainstorming and visual collaboration for teams. - Offers a flexible canvas where users can sketch, draw, add sticky notes, and annotate in real-time. - Offers a wide variety of templates and resources for project work and management.	Free plan available. Professional plan available at 12USD/month, Organization plan available at 45USD/month and Enterprise plan available at 75USD/month.
Flip	Audience Engagement Tool	- Create discussion prompts for students to respond to using video - Teachers can create different groups or classrooms on Flip and tailor the settings to fit their specific needs - Offers various creative tools for students and educators to enhance their video responses, including filters, stickers, text overlays, and other editing features	Free to use.
Formative	Assessment Helper	- Transforms a PDF or Google Doc into an auto-graded quiz - Presents slides with built-in questions for a paced lesson - Oversees students' work and give feedback in real-time	Pricing available upon request.
Gametize	Gamification/ Game-Based Platform	- Creates a gamified experience in just 5 minutes - Provides instant feedback, award points, and progress bars - Players can message, comment, vote, and like each other's submissions	7-days free trial available with paid plans starting at 100USD/month.
Genei.io	Researching Tool	- Summarizes background reading and research to produce blogs, articles, and reports - Links content to a document to generate automatic references - Chrome extension add-on to summarize webpages or save them for later reading	Paid plans start at 3.99GBP/month (billed annually).
Genially	Design Tool/ Presentation Maker	- Creates engaging and interactive presentations, infographics, quizzes, and more with a variety of elements such as animations, links, videos, and interactive hotspots - Gains access to a wide range of customizable templates for various types of content, including educational resources, business presentations, and more - Works with teams in real time and shares content easily via links, embeds, or social media platforms for broader reach and engagement	Free plan available. Paid plans for educators start at 4.99USD/month (billed annually).

Tool Name	Category	Feature Highlights	Cost
Geogebra	Math Teaching Assistant	- Offers a range of advanced interactive calculators including graphing calculator, 3D calculator, scientific calculator, and more. - Offers a dynamic platform for constructing mathematical models, simulations, and visualizations. - Provides a wide range of math teaching resources for geometry, algebra, calculus, statistics, and 3D graphing.	Free of charge for non-commercial users. Commercial users pay a moderate license fee.
Gimkit	Quiz/Game Maker	- Gamifies the learning experience by turning quizzes into interactive games. - Offers customizable quizzes with features like power-ups, leaderboards, and live feedback. - Provides insights into student progress and performance through detailed analytics.	Department plan at 650 USD/year for 20 teachers, and School plan at 1000/year for every teacher in the school.
Gizmos	AR & VR Tool	- Offers interactive simulations and virtual labs for mathematics and science education. - Provides hands-on exploration of concepts with simulations that simulate real-world scenarios. - Supports inquiry-based learning and experimentation in various STEM subjects.	Free trial available. Pricing available upon request.
Gradescope	Grading Tool	- Streamlines the grading process for paper-based, digital, and code assignments - Gains valuable insights on students' performance via a dashboard - Instantaneously delivers feedback to students	Free plan and institutional plan available.
Grammarly	Writing Tool	- Offers advanced grammar checking, spell checking, and writing suggestions to improve writing quality. - Provides real-time feedback on grammar, punctuation, style, tone, and clarity. - Integrates seamlessly with web browsers, word processors, and other writing platforms.	Free limited plan available, Premium plan starts at 12 USD/month, Business plan starts at 15 USD/month.
Graspable Math	Math Teaching Assistant	- Facilitates interactive algebra learning through a visual, manipulative-based interface and whiteboard. - Allows students to manipulate mathematical expressions and equations directly. - Provides instant feedback and hints to guide students through problem-solving processes.	Free plan available. Pricing plans available upon request.

Tool Name	Category	Feature Highlights	Cost
Gynzy	Interactive Teaching Tool	- Provides interactive whiteboard lessons and educational resources for K-8 classrooms. - Offers a library of customizable lessons, games, and activities across various subjects. - Facilitates collaborative learning and engagement through interactive features like drag-and-drop elements.	Individual plan at 7.95USD/month, School License at 42USD/month for 10 teachers, and Unlimited School License at 83USD/month, billed annually.
Hemmingway App	Writing Tool	- Helps users improve the readability and clarity of their writing. - Highlights complex sentences, passive voice, adverbs, and other areas for improvement. - Provides a readability score and suggestions for simplifying text for better comprehension.	Free trial plan available. Paid plans start at 10USD/month.
HiLink	Lesson Plan Generator	- Facilitates interactive algebra learning through a visual, manipulative-based interface and whiteboard. - Allows students to manipulate mathematical expressions and equations directly. - Provides instant feedback and hints to guide students through problem-solving processes.	Free to use.
iSpring	Learning Management Systems (LMS)	- Provides interactive whiteboard lessons and educational resources for K-8 classrooms. - Offers a library of customizable lessons, games, and activities across various subjects. - Facilitates collaborative learning and engagement through interactive features like drag-and-drop elements.	Academic plan starts at 470USD/year.
Jasper AI	AI Content Creation and Data Analysis Tool	- Helps users improve the readability and clarity of their writing. - Highlights complex sentences, passive voice, adverbs, and other areas for improvement. - Provides a readability score and suggestions for simplifying text for better comprehension.	Pricing starts at 39USD/month.
Kahoot	Gamification/ Game-Based Platform	- Makes quizzes, polls, and discussions or join games created by others - Browses through a vast library of user-generated content on various topics - Uses flashcards, create study groups, and play educational games	Free plan available. Paid plans start at 17USD/host/month.

Tool Name	Category	Feature Highlights	Cost
Kami	Annotation and Assessment Tool	- Enables text and voice annotation, markup, and collaboration on digital documents, including PDFs and images. - Facilitates paperless workflows for assignments, feedback, and collaborative projects. - Integrates seamlessly with LMS.	Free limited plan available. Teacher plan at 99 USD/year and Custom School plan pricing available upon request.
Khanmigo	Teaching Assistant	- Assists in lesson planning, grading with AI tutoring capabilities - Provides a tailored experience based on each student's needs - Provides real-time feedback that identifies and fixes mistakes on the fly	4USD/month or 44USD/year
Knewton Alta	Adaptive Learning Platform	- Offers adaptive learning solutions for higher education courses. - Personalizes the learning experience and course materials based on each student's proficiency and learning pace. - Provides real-time feedback and recommendations to help students master course material.	10.95USD/month for single course access for the month. 44.95 USD for single course access for the term. 89.95 USD for multi-term access.
Kotobee	Interactive Ebooks Platform	- Enables users to create interactive ebooks and multimedia-rich content for educational purposes. - Offers tools for creating interactive quizzes, assessments, and multimedia elements within ebooks. - Supports various platforms and devices, including web browsers, mobile devices, and e-readers.	Free plan available. Paid plans start at 150USD for lifetime access.
LessonPlans.ai	Lesson Plan Generator	- Creates lesson plans with a step-by-step guide for easy implementation - Includes a directory of lesson plans created by other users - Generates lessons from a wide range of subjects	49USD/year
Lumio	Interactive and Adaptive Learning Platform	- Provides interactive lessons and educational content for K-12 classrooms. - Offers a library of multimedia-rich resources across various subjects and grade levels. - Facilitates personalized learning experiences with adaptive assessments and feedback.	Free plan available. Standard plan at 59USD/year. Custom School plan available upon request.

Tool Name	Category	Feature Highlights	Cost
MagicSchool AI	Teaching Assistant	- Streamlines the creation and organization of lesson plans and curriculums - Easy creation and management of assessments and quizzes, offering a range of question types and grading options - Supports interactive learning experiences, allowing students and teachers to engage in collaborative activities	Free plan available, with paid plans starting at 8.33USD/month (billed annually) and 12.99USD/month (billed monthly).
Mathletics	Gamification/ Game-Based Platform	- Creates a customized learning path based on the student's strengths and weaknesses - Offers a variety of engaging games and provides a reward system and progress reports to motivate students - Tracks student progress and identifies areas needing improvement, providing valuable insights for parents and teachers	Free Trial available. The home user plan starts at 19.95AUD/month.
Mathway	Math Chatbot	- Offers step-by-step solutions to mathematical problems across various topics. - Supports algebra, calculus, statistics, and other branches of mathematics. - Provides a mobile app for on-the-go problem solving and learning.	Free to use.
Mem	AI Note-Taking Aid	- Helps keep track and store your notes in one place - Use their AI assistant to search for information within your notes - Summarize insights and create collections for easy organization	Starts at 8.33USD/month (billed annually).
Mentimeter	Interactive Presentation Tool	- Facilitates audience engagement through live polls, quizzes, and interactive presentations. - Offers customizable templates and question types for gathering audience feedback. - Provides real-time visualization of audience responses to enhance presentations.	Free limited plan available. Paid plans start at 11.99USD/month.
Merge Cube	AR & VR Tool	- Offers an immersive AR experience that allows students to explore and interact with 3D models - Provides access to a variety of educational apps and content that integrate with the Merge Cube - Compatible to use on multiple devices, including smartphones and tablets	Free trial available. Schoolwide Complete Package costs 5,999USD for 1-year term.

Tool Name	Category	Feature Highlights	Cost
Microsoft Whiteboard	Whiteboard Tool	- Enables collaborative brainstorming and ideation through a digital canvas. - Supports drawing, writing, and adding images, sticky notes, and diagrams. - Integrates with Microsoft Teams and other Office 365 applications for seamless collaboration.	Purchase Microsoft Office license to use.
MindMeister	Mind Mapping Tool	- Creates interactive mind maps to visualize ideas, concepts, and information - Offers real-time collaboration features that enable multiple users to work on the same mind map simultaneously - Supports integrations with other productivity tools like Google Drive, Dropbox, and Slack	Free Basic plan available. Paid plans start at 3.50USD/month (billed annually) or 4.50/month (billed monthly).
Mindnode	Mind Mapping Tool	- Creates visual mind maps to organize and brainstorm ideas in an intuitive, easy-to-use interface. - Supports syncing mind maps across devices using iCloud, ensuring that users can access and edit their projects seamlessly from their Apple devices - Features a Focus mode where users can concentrate on specific areas of their mind map by dimming out irrelevant sections	The Mindnode app is free to download, whereas MindNode Plus requires monthly or yearly subscription.
Mindomo	Mind Mapping Tool	- An interactive platform for creating mind maps, allowing users to visually organize and connect their ideas and concepts in a structured, intuitive manner - Supports real-time collaboration, enabling multiple users to work on the same mind map simultaneously - Offers various integration options with other tools such as Google Drive and Dropbox, and supports exporting mind maps in multiple formats, including PDF, Microsoft Office, and image files	Free plan available. Basic plan for Education starts at 3EUR/month.
Miro	Digital Whiteboard	- Allows teams to collaborate, brainstorm, plan, and visualize ideas in real-time - Includes a library of pre-built templates for various use cases such as project planning and mind-mapping - Integrates with a wide range of tools such as Slack, Microsoft Teams, and Google Workspace	Free plan available. Starter plan costs 8USD/month and Business plan at 16USD/month.

Tool Name	Category	Feature Highlights	Cost
Moodle	Learning Management Systems (LMS)	- Offers an immersive AR experience that allows students to explore and interact with 3D models - Provides access to a variety of educational apps and content that integrate with the Merge Cube - Compatible to use on multiple devices, including smartphones and tablets	Free to use.
MyApps.ai	AI Tutor	- Provides immediate answers and explanations on any subject - Tailors a study plan that considers strengths, weaknesses, and learning goals - Acts as an intelligent learning companion, providing support, guidance, and feedback	Starter plan at USD14.99/month
MyViewBoard	Digital Whiteboard/ Presentation Tool	- Interactive digital whiteboard for presentations, lesson planning, and collaboration. - Supports multimedia content, including videos, images, and documents. - Integrates with popular learning management systems (LMS) and productivity tools.	Free standard plan available. Paid plans start at 6.99USD/month or 59USD/year.
Nearpod	Interactive Teaching Tool	- Facilitates interactive lessons and presentations with multimedia content and formative assessments. - Offers features like virtual reality (VR) field trips, polls, quizzes, and collaborative boards. - Provides real-time feedback and analytics to gauge student understanding and engagement.	Free limited plan available. Paid plans range from 159USD to 397USD/year depending on storage and student count.
Nolej	Lesson Plan Generator	- Uses artificial intelligence to transform various forms of content such as articles, videos, and presentations into interactive, digestible learning materials - Provides students with tailored educational paths based on their individual learning preferences and pace - Offers in-depth analytics on student performance, allowing educators to monitor progress and adjust teaching strategies	Pricing available upon request.

Tool Name	Category	Feature Highlights	Cost
Notta	AI Note-Taking Aid	- Records & transcribes meetings in real time - Able to transcribe audio & video in multiple languages - Generates comprehensive meeting summary with key insights and action items	Free plan available. Paid plans start at 9USD/month (billed annually).
Obsidian	Writing Tool	- Facilitates knowledge management and note-taking with a robust linking and organization system. - Offers features like bi-directional linking, graph view, and custom templates for organizing information. - Integrates with other productivity tools such as Kanban and Dataview for seamless workflows.	Free for personal use. Commercial use at 50USD/year for every user.
OnlineExamMaker	Quiz Maker/ Assessment Helper	- Creates various types of exams tailored to specific subjects, difficulty levels, and learning objectives - Provides tools for securing online exams, including browser lockdowns and proctoring features to ensure academic integrity - Shows detailed analytics to monitor student performance, track progress, and identify areas where they may need additional support	Free plan available. Paid plan starts at 17USD/month billed yearly.
Otter.ai	AI Note-Taking Aid	- Offers real-time transcription for audio and video content, useful for meetings, interviews, lectures, and more - Users can share live transcripts, highlight key moments, and add comments or action items - Allows users to search for specific words or phrases within transcriptions, making it simple to find and reference information from past recordings	Free Basic plan available, with paid plans starting at 9.17USD/month billed annually.
Padlet	Brainstorming Tool	- Enables collaborative brainstorming and sharing of ideas through customizable digital boards and canvases. - Supports multimedia content, including images, videos, links, and documents. - Facilitates real-time collaboration and feedback through comments and reactions.	Free limited plan available. Paid plans start at 4.99USD/month.

Tool Name	Category	Feature Highlights	Cost
Parlay Ideas	Classroom Management System/Audience Engagement Tool	- A platform for students and educators to engage in meaningful, structured discussions through discussion prompts - Provides real-time feedback and analytics, helping teachers track student participation and understanding while offering students a way to reflect on their contributions - Allows educators to create and customize lessons using a variety of media, including articles, videos, and documents	Free Basic plan available, with individual plans starting at 120USD/year.
Pear Deck	Quiz Maker/Presentation Maker	- Creates engaging presentations with interactive elements like polls, quizzes, and open-ended questions to keep students actively involved - Enables real-time monitoring of responses, allowing teachers to assess understanding and adjust instruction accordingly - Supports self-paced learning, where students can progress through lessons at their own speed	Free plan available. Premium plan at 125USD/year.
Perplexity.ai	AI Writing Tool	- Chatbot for everything, offers AI-generated content for various purposes. - Uses natural language processing (NLP) algorithms to generate content tailored to specific topics and learning objectives. - Provides a platform for educators to create, customize, and distribute AI-generated materials.	Free plan available. Paid plan available at 20USD/month.
Pictory.ai	Video Maker	- Converts text into professional-quality videos by automatically selecting relevant images, video clips, and music - Summarizes long-form content into concise video scripts to create shorter, shareable video clips - Offers a variety of editing options, including voiceover capabilities, music tracks, and video styles	Starter plan at 19USD/month. Professionals plan at 39USD/month. Teams plan at 99USD/month.

Tool Name	Category	Feature Highlights	Cost
Plickers	Assessment Helper	- Collects real-time data on student understanding using a unique card system – students respond to questions with their cards, and teachers can instantly scan and assess their answers using a mobile device - Easy to set up and use with a straightforward process for creating questions, assigning them to classes, and capturing student responses - Only requires students to use printed cards, making it an excellent option for classrooms with limited technology while still enabling interactive assessments	Free 14-day trial available with subscriptions starting at 8.99USD/month.
PowerSchool	Teaching Assistant	- Provides a comprehensive student information system (SIS) for managing school operations and student data. - Offers features for attendance tracking, grading, scheduling, and communication with parents. - Integrates with other educational software and tools for seamless data management.	Pricing available upon request.
Presentations.AI	Presentation Maker	- Offers intelligent slide suggestions and designs based on the user's input - Streamlines the presentation creation process by automatically generating slides, layouts, and content - Customizes the generated slides to match their branding and style preferences	Free Starter plan available while Pro plan costs 198USD/year.
Prezi	Presentation Maker	- Creates engaging, non-linear presentations with zoomable and animated elements, offering a more immersive storytelling experience - Access to a wide range of professional templates, which can be customized with images, videos, and other multimedia elements - Supports real-time collaboration, allowing multiple users to work on a presentation together and share feedback	14-day free trial available. Paid plan starts at 5USD/month for personal use.
Prodigy	Gamification/ Game-Based Platform	- Practices math & English skills through a role-playing game, complete with character customization, battling monsters & more - Adjusts the difficulty level based on the student's performance, ensuring an appropriate challenge - Players can earn rewards for solving problems correctly	Memberships start at 9.95USD/month.

Tool Name	Category	Feature Highlights	Cost
QuestBase	Quiz Maker/ Assessment Helper	- Creates a variety of assessments, including quizzes, tests, and surveys with diverse question types and customizable settings - Secured online testing options with access control measures and randomization features to prevent cheating - Provides automated grading for assessments along with detailed reports and analytics	Bronze plan costs 10.95EUR/month, Silver at 21.95EUR/month, and Gold at 54.95EUR/month
Questgen	AI Quiz Generator	- Offers AI-powered question generation for assessments and quizzes. - Generates questions based on user-defined parameters such as topic, difficulty level, and question type. - Provides a database of pre-generated questions and supports customization for specific needs.	Free plan available. Plan plan available at 15USD/month.
Questionmark	Quiz Maker/ Assessment Helper	- Creates, delivers, and manages a variety of assessments, including tests, quizzes, and surveys - Features secure delivery options including proctoring and access control to ensure the integrity of assessments - Shows detailed reporting and analytics to evaluate performance, track progress, and make data-driven decisions	Pricing available upon request.
Quillbot	AI Writing/AI Detector Tool	- Offers AI-powered paraphrasing and writing assistance to improve clarity and style. - Provides options for adjusting the level of rewriting to suit different needs. - Includes features such as grammar checker, plagiarism checker and citation generator to maintain academic integrity.	Free plan available. Plan plan available at 9.95USD/month.
Quiver Vision	AR & VR Tool	- Augments traditional coloring activities with augmented reality (AR) experiences. - Offers printable coloring pages that come to life when viewed through a mobile device. - Provides educational content and activities that combine physical and digital elements.	Free trial plan available. Paid plans start at 60USD/year depending on the number of seats required.

Tool Name	Category	Feature Highlights	Cost
Quizalize	Quiz Maker	- Powered by ChatGPT, Quizalize offers engaging quizzes that can be customized to suit different topics and subjects - The platform provides instant feedback to both students and teachers - Generates detailed analytics and reports on student performance	Free Basic plan available. Paid plans start at 2.49USD/month.
Quizgecko	Quiz Maker	- Automatically generates quiz questions from provided text or URL content, saving time and effort in quiz creation - Supports a variety of question types, including multiple choice, true/false, and short answer - Easily exports quizzes to various formats, such as PDF, Word, or online quiz platforms	Free plan available and paid plan at 89USD/year.
Quizizz	Quiz Maker	- Creates and plays interactive quizzes and games - Offers instant feedback to students and detailed reports for teachers - Collaborates with other teachers by sharing quizzes and accessing a vast library of user-generated content	Pricing available upon request.
Quizlet	Quiz Maker	- Creates, shares, and uses flashcards for studying. Users can customize study sets with terms and definitions, images, and audio to help reinforce learning - Provides various study modes and formats, enabling users to engage with content in different ways - Allows users to share study sets with others and collaborate on learning, particularly useful for group study and classroom settings	Free 7-day trial available. Paid plans cost \$35.99USD/year or 7.99USD/month.
ReadWorks	Teaching Assistant	- Provides a library of curated reading passages and comprehension activities for K-12 students. - Offers differentiated instruction with leveled texts and accompanying questions. - Supports literacy instruction with articles across various genres and topics.	Free to use.

Tool Name	Category	Feature Highlights	Cost
Reclaim AI	Admin Assistant	- AI-powered scheduling assistant that automates the process of organizing meetings and scheduling events - Integrates with calendars to help manage tasks and events efficiently - Allows users to set scheduling preferences and priorities for personalized control over their time and schedule	Free Lite plan available, while Starter plan costs 8USD/month and Business Pan 12USD/month.
Remind	Classroom Management System	- Allows educators to send text messages, announcements, and reminders to students, parents, and colleagues to facilitate clear and timely communication - Organizes and manages multiple classes and groups within the platform, target specific audiences and keep communications organized - Automatic translation in multiple languages so messages are accessible to a diverse group of recipients	Pricing available upon request.
Runway	Image Generator	- Provides a suite of AI-powered tools for media editing, including video editing, image manipulation, and other creative processes - Allows users to work together on projects in real-time, facilitating seamless teamwork and collaboration - Integrates advanced AI technologies to automate and enhance content creation processes	Free Basic plan available. Paid plan starts at 12USD/user/month.
SaneBox	Admin Assistant	- Uses AI to categorize and prioritize emails, helping users focus on important messages and reducing inbox clutter - Users can create custom filters and rules to sort emails into folders based on their preferences - Has features like snooze, reminders, and follow-up tracking to help users manage their email correspondence more effectively	Starts at 3.49USD/month.
SchoolBox	Learning Management Systems (LMS)	- Integrates learning, administration, and communication tools for a seamless experience - Supports personalized learning experiences, enabling teachers to tailor content and resources to individual students' need - Provides various collaboration and communication features, such as forums, messaging, and notification	Starts at 26USD/student/year.

Tool Name	Category	Feature Highlights	Cost
SeeSaw	Classroom Management System	- Offers a range of engaging tools and interactive resources that support creative expression and allow students to demonstrate their knowledge in various ways - Provides students with the ability to create digital portfolios that track their growth and learning from Pre-K to 6th grade - Facilitates meaningful connections between families and the classroom, supports easy sharing and communication of lessons, activities, and events in over 100 languages	Teachers can try the tool for free.
Sendsteps	AI Presentation Generator	- Facilitates audience engagement and interaction during presentations through live polling and Q&A. - Offers customizable question types and voting options for gathering audience feedback. - Integrates with presentation software like PowerPoint for seamless integration into presentations.	Free plan available. Paid plans start at 6.50USD/month.
SimpleMind	Mind Mapping Tool	- Users can create dynamic and visually engaging mind maps to organize and present ideas, concepts, and information effectively. - Supports a variety of devices and operating systems, including macOS, Windows, iOS, and Android - Users can personalize their mind maps with different layouts, themes, colors, fonts, and shapes	Free trial available. Single user license starts at 27.49EUR for a one-time purchase.
Simplified	AI Content Generator	- Uses AI to create visually appealing media assets, including social media copy, videos, presentations, thumbnails, and more - Easily integrates with social media platforms such as Facebook, Instagram, Twitter, and LinkedIn, enabling seamless sharing of content directly from the platform - Allows collaboration among team members by providing features for sharing and editing projects in real-time	Pro Plan costs 10USD/month while Business Plan is priced at 19USD/month.
Sketchfab	AR & VR Tool	- Offers a platform for creating, sharing, and exploring 3D models and AR as well as VR experiences. - Provides tools for annotating, embedding, and interacting with 3D content online. - Collects and downloads students assignments using 3D models.	Free plan available. Paid plans start at 15USD/month.

Tool Name	Category	Feature Highlights	Cost
SlidesAI	Presentation Maker	- Utilizes AI algorithms to automatically design visually appealing slides, saving time and effort in creating professional-looking presentations - Leverages AI-driven content generation to quickly generate slide content, including text and visuals, based on user input and preferences - Access a range of customization options to tailor presentations to specific needs, including font styles, color schemes, and layout designs	Free plan available. Paid plans start at 10USD/month.
Slidesgo	Presentation Maker	- Offers a variety of professionally designed presentation templates for various topics and purposes - Customizes templates with their own content, including text, images, and graphics to match their branding or personal style - Provides resources specifically tailored to education and business, offering lesson plans, infographics, and diagrams to enhance presentations	Education plan starts at 2.99EUR/month or 11.99EUR/year.
Slido	Audience Engagement Tool	- Provides live polling, quizzes, and Q&A features that engage audiences during presentations, allowing for real-time feedback and interaction - Integrates with popular tools such as Google Slides, PowerPoint, and video conferencing software - Offers data insights and analytics on audience engagement and responses, helping presenters understand their audience better	Free plan available. Paid plans start at 12.50USD/month (billed annually).
Smart Sparrow	Adaptive Learning Platform	- An adaptive learning platform that tailors educational content to the individual needs and pace of each learner - Designs engaging, interactive lessons and assessments with Smart Sparrow's authoring tools - Provides analytics and reporting features that offer insights into student progress	Pricing available upon request.
SmartGrade	Grading Tool	- Grades multiple choice exams by scanning answer sheets with your phone's camera - Creates multiple choice exams with a free web-based tool called Exam Creator - Provides insights on graded exams via a dashboard	0.99USD/month

Tool Name	Category	Feature Highlights	Cost
Socratic	AI Teaching Assistant	- Offers AI-powered homework help by providing explanations and step-by-step solutions to questions. - Supports a wide range of subjects, including math, science, history, and literature. - Provides resources such as videos, articles, and practice problems to supplement learning.	Free plan available. Paid plans start at 10USD/month.
Socrative	Quiz Maker	- Creates and delivers real-time quizzes, polls, and exit tickets to assess student understanding and gather instant feedback during class - Provides automated grading of quizzes and assessments, generating detailed reports on student performance that help teachers identify learning gaps and tailor instruction - Offers a variety of interactive activities to increase student engagement and participation in the learning process	Free plan available with paid plans starting at 9.99USD/seat/month (billed annually).
SplashLearn	Math Teaching Assistant	- Provides personalized math and reading programs for early learners (K-5). - Offers adaptive learning paths and interactive games to reinforce key concepts. - Supports teachers with real-time progress tracking and comprehensive reporting.	Free plan available. Paid plans start at 7.49USD/month.
Stormboard	Brainstorming and Collaboration Tool	- Facilitates online brainstorming, collaboration, and agile planning for teams. - Offers a digital workspace with features like sticky notes, voting, and SWOT analysis. - Integrates with other productivity tools like Microsoft Teams and Slack for seamless collaboration.	Personal plan is free. Business plan available at 8.33USD/month.
StudySync	Professional Development	- Comprehensive ELA digital curriculum and assessment tools for grades 6-12. - Provides flexible, standards-aligned lessons covering key ELA skills. - Offers free webinars and resources for educators	Webinars are free to join. Curriculum library requires paid subscription.

Tool Name	Category	Feature Highlights	Cost
SurveyMonkey	Survey Tool	- Offers a platform for creating and distributing surveys and questionnaires. - Provides customizable survey templates and question types for gathering feedback. - Offers analytics and reporting tools to analyze survey responses and insights.	Price starts at 25USD/month.
Symbolab	Math Teaching Assistant	- Offers a step-by-step calculator and equation solver for mathematics and science problems. - Supports algebra, calculus, trigonometry, and other mathematical topics. - Provides detailed explanations and graphs to help users understand solutions.	Free limited plan available. Paid plans start at 6.99USD/month.
Synthesia.io	Video Creator	- Creates studio-quality AI videos from text using AI avatars and voiceovers - Offers a variety of features, including over 160 AI avatars, 130+ languages, and 60+ video templates - Crafts engaging and informative training videos for students	Starter plan at 22USD/month. Creator plan at 67USD/month.
Synthesis	AI Tutor	- Offers AI-driven, adaptive tutoring that personalizes instruction based on individual student needs - Provides engaging and interactive activities designed to promote critical thinking and problem-solving skills - Includes tools for tracking student progress and offering actionable feedback	Starts at 29USD/month.
TalentCards	Microlearning Platform	- Offers microlearning modules in the form of digital flashcards that allow for quick and easy content consumption - Provides customizable templates that allow users to create engaging and interactive learning content tailored to their specific needs, including images, videos, and quizzes - Includes performance tracking and analytics features, allowing trainers and educators to monitor learners' progress, assess knowledge retention, and adjust learning strategies	Free plan available for up to 5 users. Paid plans start at 40USD/month billed yearly or 50USD/month billed monthly.

Tool Name	Category	Feature Highlights	Cost
TeacherEase	Teaching Assistant and Grading Tool	- Provides a comprehensive suite of tools for K-12 classroom management and communication. - Offers features for grading, attendance tracking, lesson planning, and parent communication. - Supports standards-based grading and reporting to track student progress aligned with learning objectives.	Pricing available upon request.
Teachermatic	Lesson Plan Generator	- Creates comprehensive lesson plans using AI where teachers can easily target diverse learning needs based on selected criteria - Offers AI-powered tools such as multiple-choice quiz makers, rubric generators, and classroom question generators. - Simplifies the process of creating various teaching resources such as glossaries, schemes of work, and other instructional materials	Free plan available. Paid plans start at 9.99EUR/month (billed annually).
Teacherstack	Classroom Management System/Lesson Planner	- Provides tools for creating and managing lesson plans, resources, and materials, enabling teachers to streamline their planning process - Includes features for managing classrooms and students, making it easier for teachers to organize and track student progress and engagement - Offers resources and tools for teacher development to improve their teaching skills and stay updated with the latest educational trends and practices	Free registration available.
TeachMateAI	Lesson Plan Generator	- Created by certified educators to help teachers save time with lesson planning - Contains a list of +112 AI-powered tools for teachers - Works best for curriculums in USA, UK, Canada, New Zealand, Australia & Ireland	Pro Monthly at 8.99USD/month and Pro Annual at 7.67USD/month (billed annually).
Teachology	Lesson Plan Generator	- Plans and creates lessons with a pedagogy-aware AI - Builds rich assessments with robust rubric driven marking criteria - Designs outcome-aligned courses and units of work with adjustable scope	Starter plan at \$6/month while Pro plan costs \$12/month.

Tool Name	Category	Feature Highlights	Cost
Tome AI	Presentation Maker	- Utilizes AI-powered dynamic text editing capabilities to easily create and customize text content within presentations - Enhances presentations by incorporating AI-generated images to complement and enrich textual content - Access collaboration tools within Tome AI to facilitate teamwork and streamline the process of creating and editing presentations among multiple users	Free plan available. Paid plans start at 16USD/month.
Turnitin	AI Detector	- Plagiarism detection by comparing submitted content against a vast database of source - Creates insights into the use of AI writing tools in submitted content - Provides feedback on students' work, highlighting areas where AI writing assistance was used	Pricing available upon request.
TutorOcean	AI Tutor	- Combines AI with human tutors for a well-rounded learning experience - Offers features such as instant answers, practice tests, lesson plans, and writing help 24/7 support for homework, assignments, and more	Free limited plan.
Twinkl	Teaching Resource Platform	- Offers a wide range of educational resources and teaching materials for educators. - Provides printable worksheets, lesson plans, and activities across various subjects and grade levels. - Offers differentiated instruction with resources tailored for different learning styles and abilities.	Free limited plan available. Paid plans start at 8USD/month.
Udemy	Microlearning Platform	- Offers a platform for creating and accessing online courses across various topics. - Provides a diverse library of courses taught by expert instructors. - Supports self-paced learning with on-demand access to course materials and resources.	Free limited plan available. Paid courses are priced individually.
Vevox	Interactive Presentation Tool	- Facilitates audience engagement and interaction during presentations, lectures, and events. - Offers features like live polling, Q&A sessions, and quizzes to gather audience feedback. - Provides real-time analytics and reporting to track audience participation and sentiment.	Free limited plan available. Paid plans start at 6.75USD/month.

Tool Name	Category	Feature Highlights	Cost
Wakelet	Content Organizational Tool	- Allows users to organize and curate diverse digital content, including articles, videos, images, and links, into collections - Offers collaborative features for team projects and group work, enabling users to share collections and work together on curation - Seamlessly integrates with other popular apps and platforms such as Google Drive, Microsoft 365, and social media	Free plan available.
Waterford Upstart	Early Childhood Education Platform	- Waterford Upstart provides a comprehensive at-home learning program designed to prepare young children for kindergarten by focusing on early literacy, math, and science skills - The program offers a personalized learning experience for each child, adapting to their individual progress and learning style to ensure optimal growth and development - Actively involves families in their child's learning process, providing tools, resources, and support to help parents engage with and monitor their child's progress	Free for families, early childhood care providers, and community organizations.
Whimsical	Brainstorming and Collaboration Tool	- Offers collaborative visual workspace tools for brainstorming, planning, and diagramming. - Provides features like flowcharts, wireframes, and sticky notes for visual collaboration. - Supports team collaboration with real-time editing and commenting features.	Free limited plan available. Paid plans start at 10USD/month.
Winston AI	AI Detector	- Analyzes text to see if it was written by a human or AI, with a claimed accuracy of 99.98% - Uses OCR (Optical Character Recognition) technology to extract text from scanned documents or pictures - AI prediction map that provides sentence by sentence assessment	Free plan available. Essential plan at 12USD/month. Advanced plan at 19USD/month.
Wolfram Alpha	Math Teaching Assistant	- Provides instant answers to complex queries across a variety of domains such as mathematics, science, engineering, and more using curated data and algorithms - Accepts queries in natural language, allowing users to input questions as they would normally ask and receive precise, structured responses - Generates visualizations such as charts, graphs, and plots to help users better understand data and results	Free Basic plan available. The Pro plan is priced at \$5/month.

Tool Name	Category	Feature Highlights	Cost
WooClap	Audience Engagement Tool	- Creates and launches real-time interactive polls and quizzes during classes. This encourages student participation and helps assess their understanding of the material - Integrates seamlessly with popular presentation software like PowerPoint and Google Slides, allowing educators to embed interactive elements directly into their slides for a more engaging experience - Provides in-depth analytics on student responses and participation, enabling teachers to track progress, identify knowledge gaps, and adjust teaching strategies	Free basic plan available, along with campus-wide trials. Teachers and Students plan starts at 6.99EUR/user/month.
Wordwall	Audience Engagement Tool	- Offers a variety of templates for creating engaging and interactive learning activities such as quizzes, match-ups, crosswords, and more - Customizes activities with their own content, including text, images, and audio, to cater to their students' specific needs and preferences - Users can share their activities with others and access activities created by other educators	Free Basic plan available. Paid plans start at 10.80USD/month or 9.72USD/month paid annually.
Zapier	Admin Assistant	- Allows teachers to connect various educational and productivity apps, automating repetitive tasks such as grading, lesson planning, and scheduling - Integrates with many apps commonly used in education, such as learning management systems, communication tools, and assessment platforms - Teachers can create custom workflows without needing to know how to code, making it easy for educators of all tech skill levels to automate tasks	Free plan available. Pro plan at 19.99USD/month and Team plan at 69USD/month
ZipGrade	Grading Tool	- Scans paper answer sheets with your phone's camera to grade multiple-choice exams - Chooses from pre-made answer sheets or create your own custom answer sheets - Analyzes student performance with reports and data export options	Free limited plan available, Paid plan at USD6.99/year.

Guide To Deciding the Right EdTech Solution

The right EdTech solution can be a game-changer in the classroom. It has the potential to **boost student engagement**, personalized learning experiences, and ultimately, improve learning outcomes. However, selecting the wrong tool can lead to wasted resources and frustration. This guide provides a step-by-step approach to help educators make data-driven decisions and choose the perfect EdTech solution to unlock the full potential of their students.

1 Conduct In-Depth Research

- Leverage online resources, educational technology review websites, and industry publications to research and compare different EdTech solutions.
- Identify solutions that align with your learning objectives, target student population, and budgetary constraints.
- Shortlist a few promising options for further evaluation.

2 Utilize Free Trials and Demos

- Take advantage of free trials or demo versions offered by many EdTech vendors.
- Explore the functionalities of the shortlisted solutions firsthand.
- Evaluate user experience for both teachers and students.
- Consider factors like ease of use, engagement potential, and alignment with teaching styles.

3 Gather Feedback from Stakeholders

- Collect feedback from other educators who have used EdTech or those who have shown interest in adapting the tools in their classroom.
- Gauge their perspectives on the solution's suitability for their teaching methods and **classroom management strategies**.
- If applicable, seek input from students to understand their learning preferences and potential challenges they might face when using the EdTech tool.
- Consider gathering feedback from parents to ensure alignment with their expectations and concerns regarding student data privacy and online safety.

4 Prioritize Features and Functionality

- Create a weighted evaluation matrix to prioritize the features and functionalities most critical for your learning objectives.
- Assign weights to each feature based on its importance to your specific needs.
- Evaluate each shortlisted EdTech solution against the evaluation matrix, scoring them based on how well they meet your prioritized features.

5 Assess Scalability and Sustainability

- Consider the long-term viability of the EdTech solution.
- Evaluate the scalability of the solution to accommodate future growth in student enrollment or changing curriculum requirements.
- Investigate the ongoing costs associated with the EdTech solution, including subscriptions, maintenance fees, and potential upgrades.

6 Compare Vendor Support

- Evaluate the level of support offered by each EdTech vendor.
- Consider factors like the availability of professional development opportunities for teachers to use the solution effectively.
- Assess the quality of technical support offered by the vendor, including response times, troubleshooting resources, and access to online communities for peer support and knowledge sharing.

7 Pilot Test and Refine

- If possible, conduct a pilot test of the shortlisted EdTech solution with a small group of students and educators.
- This pilot allows you to identify any unforeseen challenges and refine your implementation strategy before full-scale deployment.
- Gather feedback from participants in the pilot test to further optimize your approach to using the EdTech solution effectively.

***Check out EdTech tools and AI software categorized according to purposes, subjects and education levels.**

With these steps, educators can empower themselves to make data-driven decisions that align with their unique educational vision and institutional needs. This approach ensures they choose the EdTech solution that best equips them to create a transformative learning environment for their students.

The chosen solution should not only address current requirements but also possess the potential to evolve alongside the ever-changing educational landscape. A well-researched and thoughtfully selected EdTech solution can serve as a springboard for educational transformation, encouraging deeper engagement, personalized learning experiences, and improved learning outcomes for all students.

Success Stories:

How Schools are Leveraging EdTech for Positive Impact

From schools in rural villages to bustling classrooms in megacities, EdTech solutions are transforming the educational landscape. The challenges educators face are as diverse as the classrooms they lead. Limited resources, large class sizes, and varying student needs can create a complex learning environment.

However, schools across the globe are finding innovative solutions through EdTech. This section explores success stories that demonstrate how EdTech tools are helping educators address these challenges and empower students to thrive.

Case Study A

Michigan, U.S. Teacher Increases Student Engagement & Subject Knowledge with ClassPoint



Case Study

Jeremy Gardner
Math Teacher

School

North Layton Junior High
Layton, Utah

Students

Grade 7-8, All learning levels

Profile: Andrew Gielda is a veteran History and Psychology teacher at Bay City All Saints Central, his alma mater in Bay City, Michigan. He teaches students from grade 8 to grade 12, with the objective of increasing student involvement and growth in knowledge of the subject matter.

Challenges Faced: Gielda saw the need to combat students' boredom and increase participation, student involvement, and make his lessons more exciting while also meeting his goal of improving retention and knowledge of the material.

Unsatisfied with many of the countless tools, games, or applications available for teaching, Gielda didn't want a "cookie-cutter" tool. He explained, "[I] wanted something personal to fit my class exactly on the objectives and the material I taught."

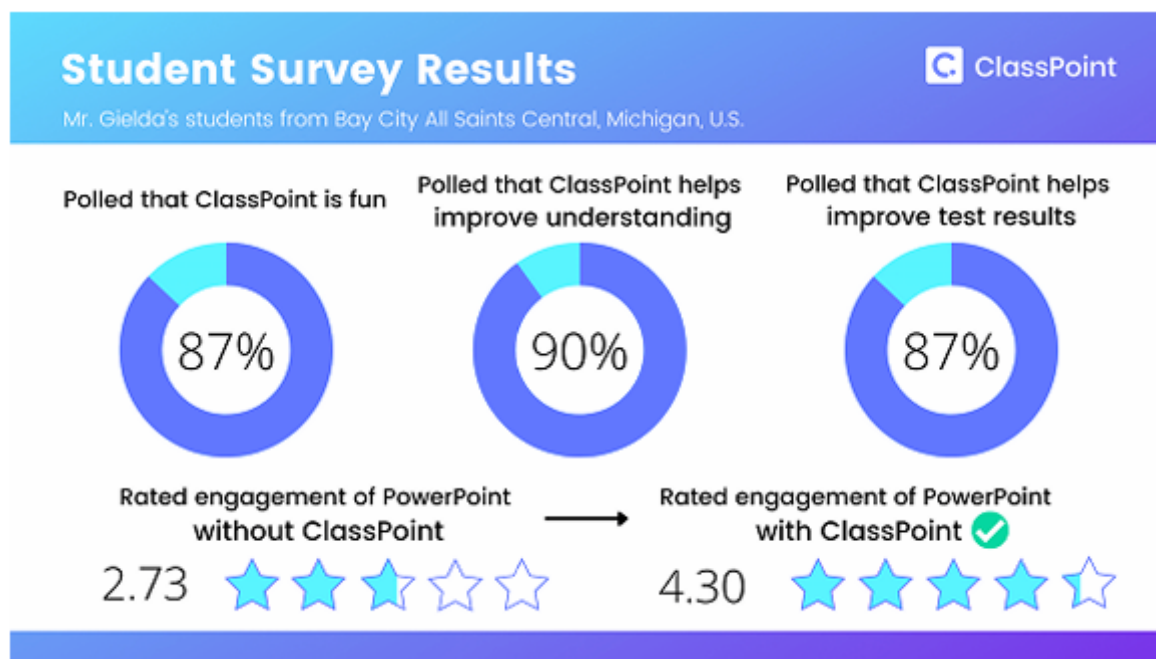
Implementation Strategies: Mr. Gielda discovered ClassPoint on YouTube and was intrigued by its user-friendly interface. He transformed his presentations into interactive lessons using ClassPoint's features in three key ways:

Gamified Reviews: Competition Mode turned reviews into exciting games with leaderboards, boosting student engagement.

Understanding Checkpoints: ClassPoint activities served as interactive "checkpoints" to assess student comprehension and maintain engagement during lessons.

Participation Grades: Gielda easily converted ClassPoint results from the leaderboard into participation grades, motivating students by linking fun activities to their academic performance.

- **Gamified Reviews:** Competition Mode turned reviews into exciting games with leaderboards, boosting student engagement.
- **Understanding Checkpoints:** ClassPoint activities served as interactive "checkpoints" to assess student comprehension and maintain engagement during lessons.
- **Participation Grades:** Gielda easily converted ClassPoint results from the leaderboard into participation grades, motivating students by linking fun activities to their academic performance.



Results Achieved: Students reported a 32% rise in engagement with ClassPoint activities. They actively participated, enjoyed the experience (87% said it was fun), and even requested "ClassPoint days." Both Gielda and his students believe ClassPoint aided learning and retention of subject matter. Test scores also reflected this positive impact, demonstrating that ClassPoint effectively supported students in grasping the material.

Case Study B

How ClassPoint, A Powerful Classroom Response System Transforms Higher Ed



Case Study

Muhd Iqbal Makmur
Assistant Professor, Macroeconomics

School

Heriot-Watt University
Putrajaya, Malaysia

Students

Foundation, Undergraduate

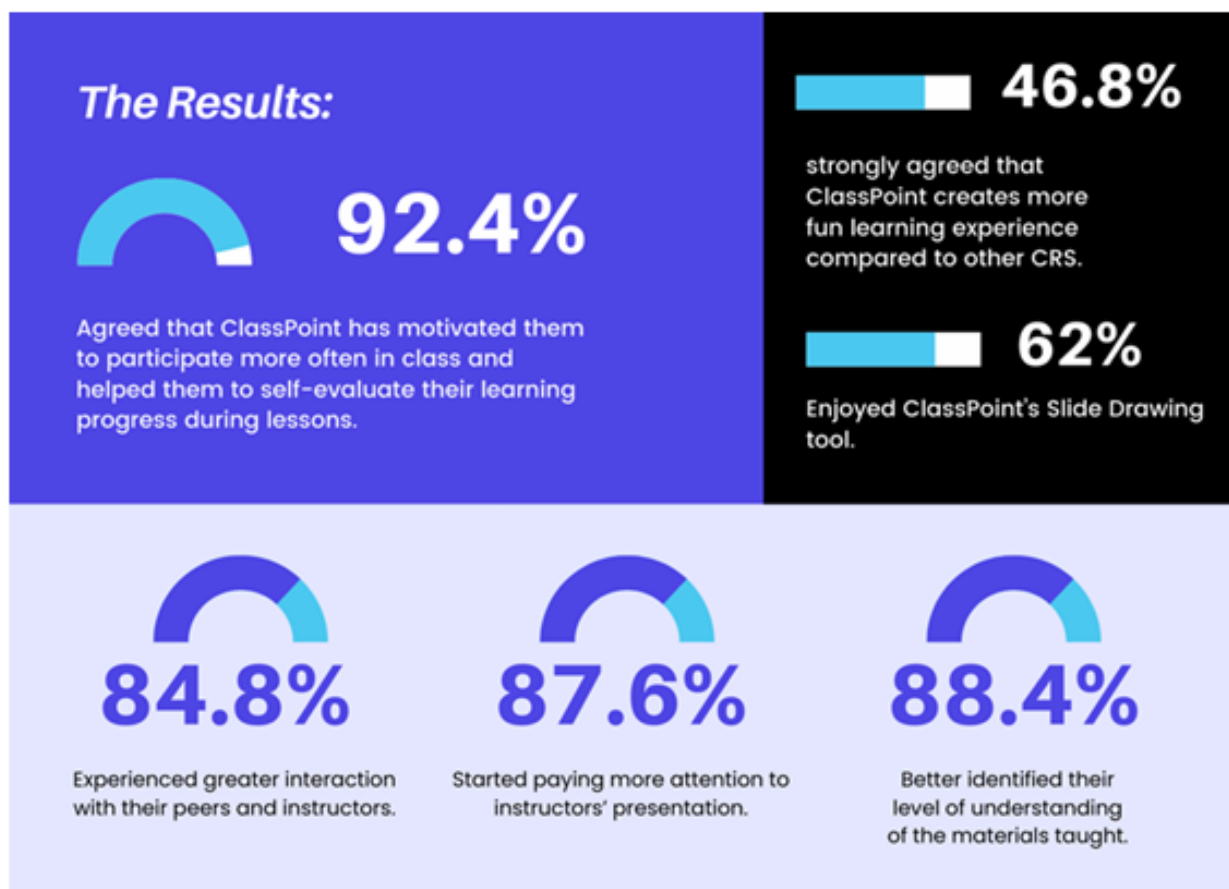
Profile: Muhd Iqbal Makmur is a Macroeconomics assistant professor at Heriot-Watt University in Putrajaya, Malaysia. He teaches Foundation year and Undergraduate students with a class size of 78 students.

Challenges Faced: Makmur struggles to engage his large Economics class. He wants to integrate technology but faces resistance from educators comfortable with traditional methods. Training is irrelevant and schedules are packed, leaving little room for adapting to new tools. Complexities from using multiple platforms further discourage technology use.

Implementation Strategies: Makmur found his solution in ClassPoint, a Classroom Response System integrated within PowerPoint, allowing him to create interactive quizzes directly in PowerPoint without the need for separate apps.

ClassPoint offers Makmur several benefits:

- **Effortless quiz creation:** Makmur could design interactive quizzes in minutes, saving prep time and eliminating app-switching hassles.
- **Gamified engagement:** Features like “Award Stars” turned quizzes into competitions, motivating students to participate and compete for recognition.
- **Encouraging participation:** Anonymous response options empowered shy students, fostering inclusivity and breaking long presentations into quiz-punctuated segments enhanced knowledge retention.



Results Achieved: Thanks to ClassPoint, Makmur is able to achieve his core **D.R.E.A.M** teaching goals:

- Discover time-saving solutions
- Reduce switching between platforms
- Engage participants seamlessly
- Accolade participants for their engagement
- Monitor participants' performance

In turn, over 80% of Makmur's students agreed that using ClassPoint creates a more fun learning experience than other classroom response systems. Participation soared, with 92.4% saying ClassPoint motivated them to engage more and track their learning. Interactive features were a hit, and **higher education students** reported increased focus, better understanding, and stronger interaction with their lecturers.

Case Study C

Empowering Engagement in Compton Unified School District with Nearpod and Flocabulary



Profile

**Compton Unified School District (CUSD),
Compton, California, USA**



Challenge

Maintain student engagement through pandemic closures and the return to in-person learning.

Strategies

- 1 Providing 1:1 devices & ensuring reliable internet
- 2 Selecting reliable tools such as Nearpod & Flocabulary
- 3 Prioritizing teacher training

Results

79%

of 5th graders and 63% of upper-class students showed increased academic motivation.

48%

of their ELL students showed progress towards English proficiency.

89%

of students are graduating high school.

Profile: Compton Unified School District (CUSD) in Compton, California thrived pre-pandemic, boasting rising achievement above state averages and near 90% graduation rates.

Challenges Faced: The pandemic disrupted their progress, raising concerns about learning loss, especially for their low-income and high ELL population. Michele Dawson, a district leader, emphasizes low engagement as a root cause of low achievement. This highlights CUSD's key challenge: maintaining student engagement through pandemic closures and the return to in-person learning.

Implementation Strategies: Compton Unified School District (CUSD) understood that technology could be the bridge between pandemic disruption and continued student success. They implemented a multi-pronged approach to ensure a smooth transition to remote learning and then a **hybrid model**.

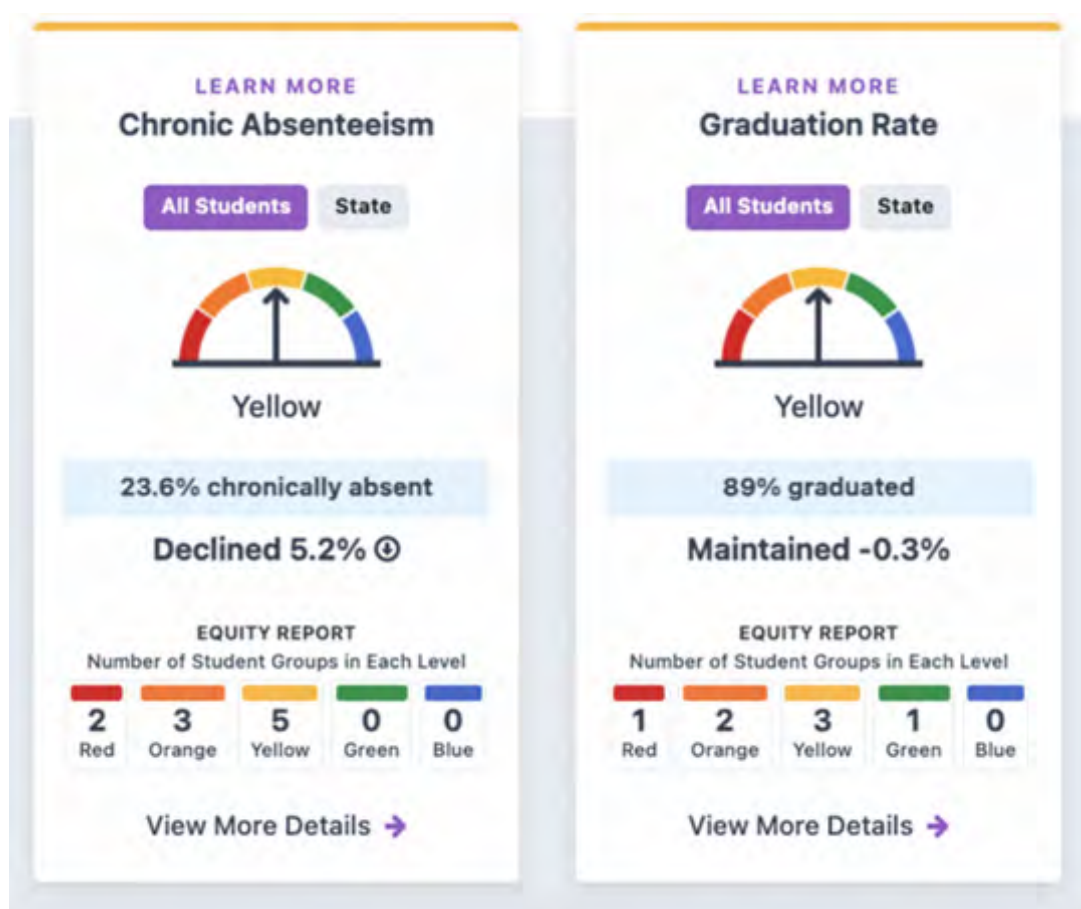
1. **1:1 Devices and Reliable Internet:** CUSD prioritized providing every student with a device and reliable internet access, removing barriers to online learning.
2. **Selecting Reliable Tools:** CUSD recognized that not all educational technology is created equal.

They carefully selected two key resources that fit their needs:

- **Nearpod:** This user-friendly platform offers a vast content library filled with engaging and interactive lessons. Built-in formative assessments allowed teachers to gauge student understanding in real time, enabling adjustments and personalized instruction.
- **Flocabulary:** Recognizing the high percentage of English language learners (ELLs) in their population, CUSD selected

Flocabulary. This innovative platform utilizes music, rhythm, and a focus on rigor to make building vocabulary and grammar skills an engaging experience.

3. **Investing in Teacher Training:** CUSD prioritized teacher training to ensure educators could make use of Nearpod and Flocabulary's features for engaging lessons, differentiated instruction, and data-driven personalization.



Case Study D

How a Florida school used Prodigy to support math instruction after losing funding



Profile

Beulah Elementary School, Escambia County, Florida, USA

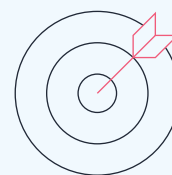


Challenge

Losing Title I funding that eliminated most educational resources.

Strategies

The school reprioritized its budget so it could continue using Prodigy for math lessons



Results

Despite losing Title I funding, Beulah Elementary School leveraged Prodigy's math resources to improve student learning.

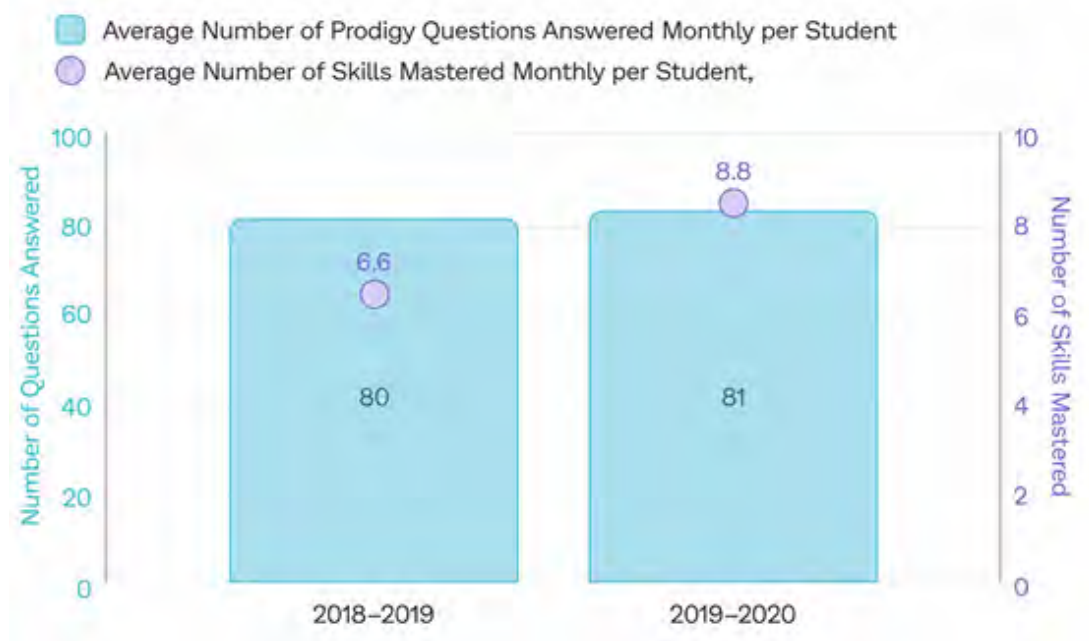
Compared to the previous year, students mastered more math skills per month on average in 2019-20 using Prodigy. Teachers also observed a shift in student attitudes towards math. Students were excited to have math discussions based on Prodigy, demonstrating a newfound interest in problem-solving beyond textbooks. Its engaging format had students eager to practice math, even requesting to play during recess and at home.

Profile: Beulah Elementary School, located in Escambia County, Florida, oversees 900+ students from various backgrounds and focuses on providing quality education to enhance students' learning experiences and improve academic outcomes.

Challenges Faced: Beulah Elementary faced a budget crisis, losing Title I funding that eliminated most educational and costly resources. Assistant Principal Matthew Taylor had to make the difficult decision to stop using several tools in their repertoire.

Implementation Strategies: Teachers and students at Beulah Elementary have been using Prodigy before losing their funding and they love the tool for its engaging gameplay, teacher-friendly features, and valuable data insights. While all the other tools had to go due to lack of funds, Principal Taylor believed Prodigy could be the go-to solution for math because:

- **Engaging Gameplay:** Prodigy utilizes a [game-based approach](#) with character customization, quests, and friendly competition to keep students motivated and actively engaged in math practice.
- **Adaptive Learning:** The program employs an adaptive algorithm that personalizes the learning experience by placing students at their appropriate skill level and guiding them along their individual learning paths.
- **Teacher-Friendly Tools:** Prodigy integrates seamlessly with existing curriculums and requires minimal setup or maintenance by teachers. Educators can rely on clear and accessible reports to monitor student progress and tailor instruction accordingly.
- **Family-Focused Support:** Prodigy provides a user-friendly platform that allows students to practice math independently at home, reducing homework stress for families and empowering those who might struggle with traditional math support methods.
- **Clear Data Presentation:** Prodigy offers easy-to-understand reports with clear visualizations that allow teachers to readily identify areas where students need additional support or excel, facilitating data-driven instructional decisions.



Case Study E

Moodle App helps improve learning outcomes in rural Africa



Profile

Mwabu, an education business supporting primary schools in rural Africa with technology.



Challenge

Untrained teachers, large class sizes, limited internet access, and lack of software

Strategies

Mwabu provided a custom Moodle app pre-loaded on tablets to ensure:

- 1 Offline learning
- 2 Accessible payment methods
- 3 Scalability to reach 330,000 learners and 10,000 teachers

Results

10% increase in math test scores



12.4% improvement in oral vocabulary skills

Profile: Mwabu is an education business that supports African primary school teachers with appropriate technology to improve learning outcomes, even in the most challenging of rural areas. They aim to tackle educational barriers in rural Africa by equipping schools with resources designed for low-resource settings.

Challenges Faced: Children in rural African communities often face challenges like untrained teachers, large class sizes, limited internet access,

and lack of hardware, making it difficult to implement technological solutions and bring these marginalized classrooms into the 21st century.

Implementation Strategies: Mwabu offers a solution in rural Africa by providing a custom Moodle platform accessible even without the internet. This Moodle App, pre-loaded on tablets, empowers students to overcome limited resources and internet connectivity.

Here's a breakdown of Mwabu's approach:

- **Offline Learning:** Students receive tablets with the Moodle App, enabling them to learn and access educational materials even without internet access. This is crucial in remote areas where connectivity is unreliable or unavailable. The tablets sync with the Moodle platform whenever the internet becomes available, ensuring data is kept up-to-date.
- **Accessibility for All:** Recognizing the limitations of traditional online payment methods, Moodle developer Titus Learning created a unique e-commerce system within the platform. This allows individuals without credit cards to purchase access offline, removing a significant financial barrier for families in impoverished communities.

- **Scalable Impact:** In its first year, Moodle aims to reach a significant population of 330,000 learners and 10,000 teachers across Zambia and Sierra Leone. The long-term vision is to replicate this success story in additional rural locations throughout Africa, progressively widening the reach and impact of Mwabu's innovative approach.

By focusing on offline functionality, alternative payment methods, and scalability, Mwabu is well-positioned to bridge the educational gap and empower students in even the most challenging environments.

Results Achieved: Mwabu's impact is evident in rising test scores (10% increase in math) and improved vocabulary (12.4%) for students using the Moodle App. This goes beyond academics, as Mwabu empowers teachers and fosters essential skills in young learners. Notably, they prioritize equal access for all with observations confirming fair access to tablets in classrooms. This commitment to breaking down barriers is a key to Mwabu's success.

Cross-Case Study Analysis:

Technology Integration to Enhance Student Engagement & Learning Outcomes

By analyzing the success stories presented, a common thread emerges: EdTech solutions, when implemented thoughtfully and aligned with specific educational goals, can significantly enhance student engagement and promote personalized learning experiences. Here are some key takeaways:

- **Alignment with Learning Objectives:** Effective EdTech integration requires a clear understanding of the learning objectives and how the chosen tools can support them. Cases like A, B, and C demonstrate how interactive features and gamification can motivate participation and knowledge retention.
- **Addressing Challenges:** Different contexts necessitate different solutions. Case D (Prodigy) exemplifies how EdTech can address budget constraints, while Case E (Moodle App) highlights the importance of considering offline functionality for areas with limited internet access.
- **Professional Development:** Successful EdTech implementation hinges on proper teacher training. Case C (CUSD) underscores the value of investing in teacher training to ensure educators can leverage tools for differentiated instruction and personalized learning.
- **Ongoing Support:** Beyond initial training, ongoing support from EdTech vendors is crucial. This can include access to professional development resources, technical assistance, and user communities for educators to exchange best practices.

Moving forward, fostering successful EdTech integration requires a collaborative effort from educators, administrators, and EdTech vendors. Educators can use technology to create dynamic learning environments that prepare all students for success by prioritizing engagement, accessibility, teacher empowerment, and ongoing support.

Education Redefined:

How EdTech and AI are Shaping the Future

The educational landscape is undergoing a significant transformation fueled by advancements in [Educational Technology](#) and [Artificial Intelligence \(AI\)](#). While the findings in this white paper highlight both the current potential and persistent challenges associated with technology integration in classrooms, the future holds immense promise for personalized learning experiences that empower all students to reach their full potential. This shift from a rigid, one-size-fits-all approach to education promotes a deeper understanding, a love for learning, and the intrinsic motivation to excel.

Personalized Learning Takes Center Stage

[AI-powered platforms](#) can analyze student data, including learning styles, pace of comprehension, and areas requiring additional support. This data can then be used to create customized learning paths with targeted instruction, differentiated activities, and adaptive assessments. Students can receive real-time feedback on their progress, allowing them to adjust their learning strategies and become active participants in their educational journeys.

These AI-driven personalized learning paths not only benefit students but also provide invaluable support to educators.

Teachers can use the data insights to identify learning gaps and strengths among their students, informing their instructional strategies and enabling more targeted interventions. This approach promotes a [more collaborative learning environment](#), where students receive the attention and resources they need to succeed, and teachers gain a better understanding of how to effectively address diverse student needs.



Adaptive Learning and Gamification

AI-driven platforms will create adaptive learning environments that dynamically adjust to student performance in real time. The difficulty level of content, the pace of instruction, and the types of activities offered will all adapt based on a student's performance and mastery of concepts. This ensures that students are challenged appropriately, neither feeling bored by repetitive tasks nor overwhelmed by concepts they are not yet ready for. **Gamification** elements can further **enhance engagement** by incorporating reward systems, interactive activities, and personalized learning quests.

In addition to personalized learning quests, AI can also curate **interactive activities that cater to different learning styles**. A kinesthetic learner might benefit

from educational games that involve movement and physical activity, while a visual learner might thrive with simulations and interactive videos. AI can ensure that all students are actively engaged and motivated to learn through tailored learning experiences catered to each student's individual strengths and preferences.



Microlearning and the Power of Bite-Sized Knowledge

Micro-learning goes beyond simply presenting information in smaller chunks. It leverages the power of focused learning, allowing students to delve into specific concepts without feeling overwhelmed by the vastness of a subject. This targeted approach aligns perfectly with AI-powered personalization. Students can identify areas needing improvement and concentrate on those micro-lessons, maximizing their learning potential.

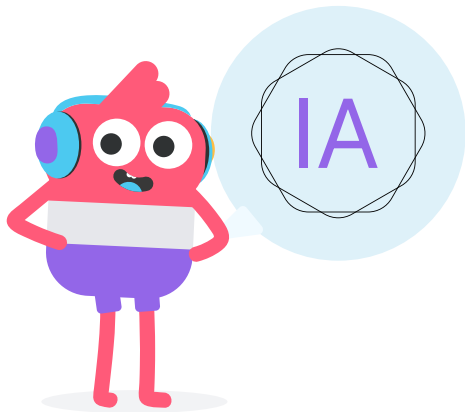
Furthermore, the flexible nature of micro-learning caters to diverse learning styles and schedules. Want to brush up on a specific concept before an exam? Micro-learning modules offer

a quick and focused review. Need to learn a new skill on the go? Bite-sized lessons can be accessed and completed during commutes or breaks. This self-paced approach empowers students to take ownership of their learning journey, fostering a sense of agency and motivation.

While micro-learning might not replace in-depth exploration of complex subjects, it serves as a powerful tool for educators. It effectively introduces new concepts, reinforces existing knowledge, and personalizes the learning experience for each student.



AI-Powered Support Systems



AI can provide invaluable support systems that lighten the load for both educators and students. AI assistants can handle a variety of administrative tasks, including grading multiple-choice quizzes, scheduling appointments, and generating reports. This frees up valuable time for educators to focus on personalized instruction, such as creating formative assessments, providing targeted feedback, and offering one-on-one support to students who need it most.

Moreover, AI-powered chatbots can offer students 24/7 access to learning resources. This

continuous learning extends beyond the classroom walls, empowering students to take ownership of their learning and fostering a spirit of independent inquiry. AI tutors can also provide students with personalized feedback and guidance, identifying areas of strength and weakness to offer targeted suggestions for improvement and recommend additional practice exercises. This personalized feedback loop can be particularly helpful for students who are hesitant to ask questions in class or who simply learn best through individualized instruction.

***Discover 47 ChatGPT alternatives here to try in your next lesson.**

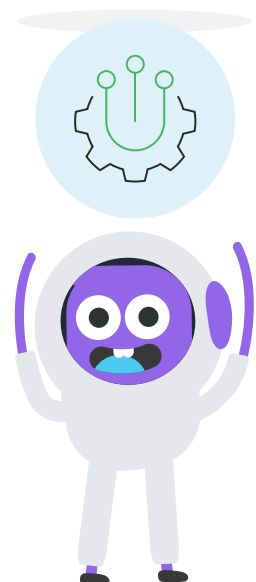
Focus on Social-Emotional Learning (SEL)

While AI excels at personalization and skill development, the future of EdTech recognizes the importance of social-emotional learning (SEL). Social-emotional learning equips students with the skills necessary to navigate the complexities of life, including self-awareness, self-regulation, relationship skills, empathy, and responsible decision-making. By analyzing student data, including interactions with classmates and online behavior, AI can identify students who might be struggling with social interaction or emotional regulation.

AI-powered interventions can then be implemented to provide targeted support. This may include personalized SEL modules that teach students coping mechanisms

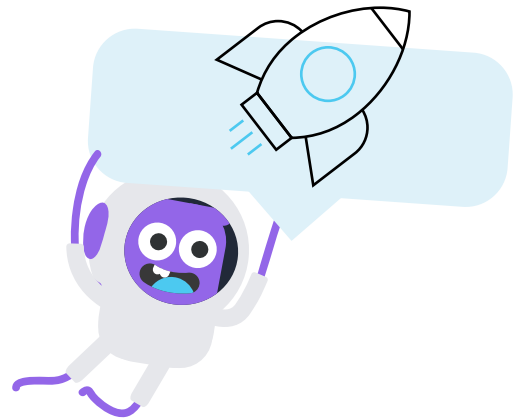
for stress and anxiety, or virtual reality simulations that allow students to practice social skills in a safe and controlled environment. Furthermore, AI can analyze student communication patterns to identify potential issues with bullying or cyberbullying. By flagging these incidents to educators and providing students with resources to report such behavior, AI can help create a safe and inclusive learning environment for all.

Ultimately, AI can play a vital role in educating well-rounded individuals who are not only academically successful but also emotionally intelligent and equipped to navigate the social and emotional challenges of the 21st century.



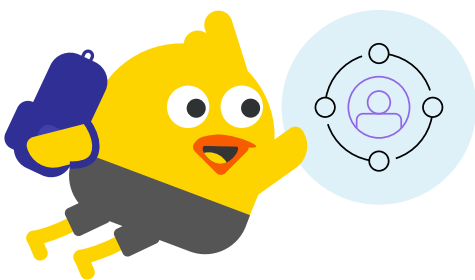
Bridging the Gap Between Tradition & Technology

Blended learning shatters the confines of a one-size-fits-all approach to education. This innovative method seamlessly blends the irreplaceable aspects of traditional classroom instruction with the power and flexibility of online learning activities. Within the walls of a physical classroom, students can flourish in a social and collaborative environment. They benefit from the direct guidance and support of educators, fostering a sense of community and real-time interaction with peers. This social aspect is crucial for developing communication skills, teamwork, and critical thinking through classroom discussions and group projects.



However, blended learning doesn't stop there. It extends the learning experience beyond the classroom walls by incorporating online learning activities. These online platforms offer students personalized learning paths tailored to their individual needs and pace. **Bite-sized online modules and interactive exercises** can provide targeted practice and clarification. Additionally, for advanced learners, online resources can offer opportunities for independent exploration and in-depth dives into areas of personal interest.

Breaking Down Geographical Barriers



AI-powered language translation tools can break down geographical barriers, **strengthening global collaboration and cultural exchange**. Students can connect with peers from around the world, engage in collaborative projects, and gain exposure to diverse

perspectives, enriching their learning experience and preparing them for an increasingly interconnected world. This global exchange can not only enhance learning but also instill empathy, cultural appreciation, and the critical thinking skills necessary to navigate an increasingly interconnected world.

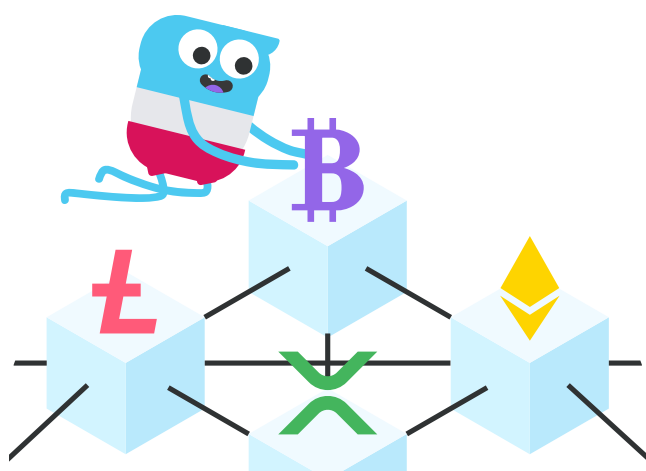
Additionally, AI-powered language learning tools can personalize the language acquisition process, allowing students to learn at their own pace and focus on areas that need improvement. This can empower students to become multilingual communicators, opening doors to future educational and professional opportunities on a global scale.

Blockchain Revolutionizes Educational Credentials

Blockchain technology, renowned for its secure and decentralized transaction systems, is poised to fundamentally transform how educational credentials are issued and verified. With this technology, students would own and control their credentials, effortlessly sharing them with anyone they choose. But the benefits extend far beyond convenience. Blockchain also injects a new level of transparency into the equation, creating an immutable record of a student's academic journey. Every course completed and every qualification earned would be permanently documented on this secure ledger, providing a comprehensive and verifiable picture of a student's educational achievements.

This shift towards blockchain-based credentials offers a multitude of advantages. Streamlined verification processes can expedite job applications and university

admissions, saving valuable time and resources for both institutions and students. Furthermore, the elimination of physical documents reduces the risk of loss or damage, ensuring students always have secure access to their credentials. The decentralized nature of blockchain also eliminates the possibility of a single point of failure, ensuring the permanent and tamper-proof nature of these digital records.



The Role of Educators

The future of EdTech does not diminish the crucial role of educators. Instead, **AI empowers educators to become facilitators of learning**, guiding students on their personalized learning journeys. AI and EdTech tools can equip educators with valuable insights collected from student data, such as strengths, weaknesses, and **preferred learning styles**. Armed with this information, educators can tailor their instruction to address individual student needs. This can involve creating differentiated learning activities, providing targeted interventions for students who are struggling, or offering enrichment opportunities for advanced learners.

AI and EdTech tools can also automate time-consuming tasks such as grading and administrative duties, freeing up valuable time for educators to focus on building relationships with students, providing mentorship, and promoting a love of learning. Ultimately, the future of education hinges on a strong partnership between technology and educators, with AI augmenting human expertise and educators leveraging these tools to create a more effective and engaging learning environment for all students.

Conclusion

This Digital Literacy white paper set out to highlight the challenges and opportunities educators face in the evolving world of technology and its role in the classroom. Based on the survey data gathered, we've established some common problems and challenges when selecting and implementing effective educational technology solutions that can truly transform classrooms.

Oftentimes, educators struggle to navigate a vast array of EdTech tools, unsure of which ones align with their specific learning objectives and student needs. Additionally, concerns around budget constraints, teacher training, and ongoing support can hinder successful EdTech integration. The good news is, there are powerful solutions readily available. By adopting the suggested framework above, educators can hopefully approach EdTech selection and integration with ease.

Furthermore, the success stories showcased throughout this paper demonstrate the transformative potential of EdTech. These examples highlight EdTech's ability to address core challenges and empower all students to learn and thrive. By embracing EdTech and its ability to personalize instruction, bridge geographical barriers, and foster essential social-emotional skills, educators can create a dynamic and empowering learning environment for every student.

Meanwhile, the future of education is brimming with possibilities. As AI and EdTech continue to evolve, we can expect even more revolutionary tools that not only cater to diverse learning styles but also encourage students to become self-directed learners and critical thinkers, preparing them for the challenges and opportunities of the 21st century. This white paper equips educators with a foundational understanding of EdTech and serves as a launchpad for their exploration and experimentation with these powerful tools.

Numerous online resources can provide ongoing support and access to the latest EdTech advancements, as we've compiled in the repository in this white paper. Educators and institutions can also partner with educational technology providers who prioritize educator training and support. Most importantly, remember that the power to transform your classroom lies within your reach. Embrace innovation, leverage technology thoughtfully, and empower your students to reach their full potential.

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Content: Chew Zhun Yee, Febriani Ramadhanya

Survey: Chinapat Racharborirugs, Judesh Thiagarajah, and ClassPoint's B2B team

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