

Lenovo
Education



Secure a new digital learning environment

For education recovery, today's K-12 schools need dynamic digital solutions and safeguards

Lost class time means lost potential.

The United Nations Educational, Scientific and Cultural Organization (UNESCO) estimates that, due to learning and skill development lost during pandemic school closures, "...this generation of students risks losing \$17 trillion in lifetime earnings."¹

Today, every second of class time counts. School leaders have an opportunity to reinvent how they engage a distributed student body.

They must use lessons learned in a crisis to prevent another one — from the consequences of unmet learning outcomes to the worrisome rise of ransomware attacks on K-12 schools around the world.

3x increase in the risk of dropout for primary and secondary students in São Paulo, Brazil, who learned only 28% of what they would have in face-to-face classes.¹

#1 Ransomware is the #1 form of K-12 cyberattacks, surpassing data breach attacks for the first time last year.²



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Hybrid transformations helped sustain education delivery as schools reopened. Now it's time to invest in learning programs that can amplify classroom-based experiences and make education more resilient, efficient, and secure for the long term.

With Lenovo digital solutions running Windows 11 and powered by the built-for-business Intel vPro,[®] An Intel[®] Evo[™] Design, the next phase of education and its students can begin to reach their full potential.

Defining the new digital learning environment

In a successful digital learning environment (DLE), learning and access to educational resources are available to students at any time.

“Great DLEs will define organizations that excel with this new future versus those that continue to simply recreate the status quo with technology thrown in,” writes Gartner in its 2022 K-12 Digital Trends report.³ The organization predicts that great DLEs will:

- Provide students with access to high-quality learning resources and devices that can be used whenever and wherever they're needed
- Provide teachers with significant professional development to learn how to update pedagogy and create better learning opportunities
- Design classroom floorplans that can flex rapidly as lesson plans change and outfit them in technology designed to seamlessly move around these areas
- Deploy devices that have the video, audio, and adaptive accommodations required by today's K-12 curriculum
- Ensure these devices can be scaled and managed

Maximizing education continuity with smarter technology

Agile learning tools accomplish these DLE goals and propel efficient blended learning. Dynamic K-12 technology supports distance learning as well as computer-assisted learning in the classroom.

Lenovo digital solutions powered by Windows 11 and Intel vPro[®] with 12th Gen Intel[®] Core[™] processors make it easier than ever to keep up with a widespread student body. Manageability features allow IT to keep a highly dispersed network patched and protected, and stability features allow for flexible rollouts and reliable lifecycle management.

Teachers need collaboration platforms that create more immersive and flexible learning environments that can support students in multiple locations. Their devices should power excellent remote collaboration for videoconferencing while remaining flexible enough for 1:1 instruction.

The ThinkPad[®] X1 Yoga with Windows 11 delivers a powerhouse combination of performance, responsiveness, and versatility. Powered by Intel vPro[®], An Intel[®] Evo[™] Design with 12th Gen Intel[®] Core[™] i7 processors, this 2-in-1 laptop offers a larger battery life and quickly switches between laptop, tablet, tent, and stand modes.



ThinkPad[®] X1 Yoga



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“The success of learning recovery will largely depend on the teachers who are on the front lines of delivering learning recovery programs and supporting students’ well-being. Those teachers need our support.”

United Nations Educational, Scientific and Cultural Organization¹

The ransomware risk is so serious that the Information Systems Audit and Control Association recommends, among other preventive measures, that school districts procure cybersecurity insurance to assist with remediation and mitigate liability for damage to students and families.¹⁰

A next-level digital learning environment is battered down with multiprong security forces as well, including new AI-driven Lenovo NetFilter software that combines internet filtering and threat protection in one solution.

Lenovo ThinkPad X1 laptops feature Intel vPro® with 12th Gen Intel® Core™ processors and exclusive Intel® Hardware Shield, delivering hardware-based, multilayer security that reduces the attack surface of the system.

Protecting a mixed network and device environment

Safeguarding data and maximizing protection for students and teachers are paramount for the long-term success of any digital learning environment. The latest threat? A surge in ransomware attacks.

Schools have been a target of ransomware for some time. Education had the highest rate of ransomware of all industries examined in a 2016 report by BitSight — more than three times that of the healthcare and financial industries.⁴

The pandemic exacerbated the vulnerabilities — so much so that the UK’s National Cyber Security Centre (NCSC) warned the country’s education sector in 2020 that schools were specific targets of ransomware attacks.⁵

The US Federal Bureau of Investigation (FBI) issued a similar alert to K-12 schools that same year, urging extra precautions to secure networks.⁶ But ransomware incidents were the most frequently disclosed K-12 cybersecurity incident for the first time ever in 2021.⁷

The high cost of hackers

\$2 million

Stolen median amount from school districts via phishing campaigns⁸

\$9.8 million

Stolen from a single K-12 school district in 2020, a new record⁸

\$207,000

Stolen from a US school district in a ransomware attack that blocked access to emails, security cameras, important data, and critical software systems⁹



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Gain security and support for the future

With the proliferation of digital learning resources, a trusted partner can help you optimize your time and budget as you build a next-level digital learning environment.

Together with Microsoft and leading independent software vendors, Lenovo provides a broad portfolio of software and hardware solutions for student safety, digital instruction, and classroom management.

Lenovo laptops like the ThinkPad X1 Yoga run on Windows 11 and feature Intel vPro,[®] an Intel[®] Evo[™] Design, with 12th Gen Intel[®] Core[™] i7 processors for an unrivaled education PC solution. Learn more at www.lenovo.com/K-12-Education.



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Sources

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Ransomware attack prevention tips for K-12 schools

Digital learning environments require robust, autonomous protection for home and in-class use. As ransomware's rising threat continues, enact these security best practices across your district.

Train

- Establish regular security awareness training sessions with a special focus on teaching how to identify suspicious phishing emails and links
- Create consistent reminders for teachers and administrators to update passwords, always using a combination of numbers and special characters

Manage

- Enable system provisioning seamlessly and securely with Zero Touch deployment
- Block access to malicious documents attached to emails
- Restrict end users' download and install privileges as appropriate
- Choose a content filtering and student safety solution like Lenovo NetFilter

Maintain

- Apply solutions for vulnerability identification, containment, resolution, and patching to prevent malicious actors from exploiting a weakness in the school network
- Keep operating systems, software, and browsers up to date to prevent drive-by downloading or crypto ransomware

Prepare for the worst case

- Store offline, offsite backups of critical systems and official school data to build resilience in case of an attack

Plan for the best outcome

- Ensure your device management strategy allows IT to track devices, monitor device help, issue critical updates, and manage user permissions
- Equip schools with devices that have built-in endpoint and data protection services like Microsoft Intune for Education, which secures data and ensures privacy and compliance across all devices, users, and apps

The ThinkPad® L13 Yoga comes with a suite of built-in ThinkShield security solutions, dTPM data encryption, optional biometric fingerprint log-in and IR camera facial recognition with Windows Hello, and Intel hardware-based, multilayered security with remote recovery capabilities from Intel vPro® technology.

Explore all our solutions built to inspire the future of learning at www.lenovo.com/K-12-Education.



Windows 11

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