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Case Study

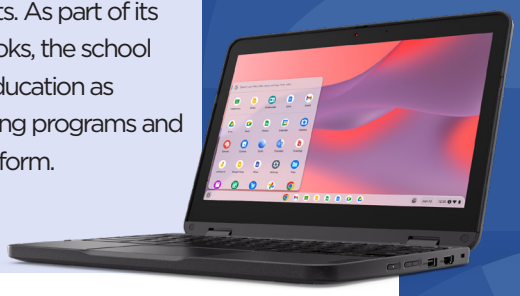
Goseo Elementary School

Fostering Smart Students with Global Aspirations through the Happy Education Project

Enhanced curriculum engagement and digital/AI literacy through the use of Lenovo Chromebooks and Google Workspace for Education

Founded in 1926, Goseo Elementary School is a small but historic institution with a total enrollment of 56 students. The school supports a wide range of educational and learning activities designed to nurture students' dreams and talents. With a focus on education that values individuality, smart learning, and digital integration, the school is continuously working to strengthen students' future-ready competencies. Led by the principal, the entire faculty has achieved significant outcomes through participation in various educational initiatives over the past decade.

The school has consistently implemented a variety of unique and meaningful programs—including Future Classrooms, international exchange, virtual classes with Australian schools, software leadership initiatives, and U-learning—designed to help students explore their dreams and talents. As part of its preparation for digital transformation and the adoption of AI-powered digital textbooks, the school introduced Lenovo 500e Chromebook Gen 3 devices and Google Workspace for Education as foundational tools for edtech-based learning. Teachers were also provided with training programs and technical support to maximize their use of the Google Workspace for Education platform.



Challenges

As expectations grow for innovation and the role of digital technologies in enabling digital transformation in the classroom, edtech has become a core part of educational infrastructure across elementary, middle, and high schools. However, as a small rural school, Goseo Elementary has faced challenges distinct from its urban counterparts—including limited peer interaction, passive classroom participation, and a growing administrative burden on teachers.

Small-class schools like Goseo are increasing due to declining student populations and the geographic nature of rural regions, and this trend is expected to continue. Given the unique characteristics and potential scalability of such schools, it is essential to develop more efficient and innovative strategies—centered around edtech—to close the education gap between urban and rural areas and to build a sustainable model for future-oriented smart learning.

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Solution

> *Compared to tablets and laptops, Chromebooks have shown better results in students' learning and activities, as well as in teachers' lesson management and feedback delivery. In particular, Chromebooks and Google Workspace for Education are expected to be effective solutions for improving collaboration, creativity, and problem-solving skills. In addition, using Chromebooks has significantly reduced the time spent on lesson preparation and administrative tasks. This proves that Chromebooks are highly useful devices in educational settings.*
>
> - *Teacher A, Goseo Elementary School*

To strengthen students' digital and AI literacy, promote collaborative learning, and support teachers in curriculum development and administrative efficiency, Goseo Elementary School adopted the Lenovo 500e Chromebook Gen 3 and Google Workspace for Education.

The Lenovo Chromebook demonstrated strong durability in demanding classroom environments where drops and impacts are common, while supporting key educational applications such as Google Workspace for Education. With stable network connectivity and portal access, students were able to take full advantage of various educational services. In addition, the Chromebook's web-based AI tools, combined with the advanced features of Google Workspace for Education Plus, offered students deeper and more interactive learning experiences.

To support hardware- and software-based lesson design, teachers received technical guidance and personalized training through PD sessions. These sessions were provided to participating teachers and included one-on-one coaching with experts, helping them adopt Google Workspace for Education and related tools in ways tailored to their teaching styles and classroom needs.

Teachers used a variety of Google Workspace for Education apps to enhance lesson preparation, share documents in real time, provide timely feedback, and foster student collaboration. To encourage active participation, they moved away from traditional lecture-based instruction and incorporated more group work and student-driven online content.

Students actively used smart devices and software tools, collaborating on content creation through platforms such as Google Classroom, Google Docs, and Google Slides. They also completed assignments using the Lenovo 500e Chromebook Gen 3's built-in stylus, actively utilizing smart devices and software in the classroom.

Lenovo 500e Chromebook Gen 3

The Lenovo 500e Chromebook Gen 3 is ideal for any learning environment, offering powerful performance, high durability, and a sleek design. With a battery life of up to 12.1 hours, it can be used throughout the day, helping to elevate the learning experience. As a convertible device with a 360-degree hinge and a built-in USI stylus, it enables students to express their creativity both inside and outside the classroom. It also supports a variety of AI tools provided by Google, such as Gemini. With Wi-Fi 6 support, students can participate in lessons, share documents, and collaborate with faster connectivity from anywhere.

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Benefits

Before adopting Lenovo Chromebooks and Google Workspace for Education, Goseo Elementary School primarily conducted lessons through offline interactions. Teachers used digital boards to present PPT slides and videos, while students had no prior experience using Chromebooks. The use of edtech was limited to filling out printed worksheets or conducting basic research using tablets.

After introducing Lenovo Chromebooks and Google Workspace for Education, a student-centered collaborative learning environment was established. Students worked together on assignments using Google Slides and other edtech platforms, sharing materials via chat features and actively engaging in group work. Each group created promotional materials and presented their outputs to the class, leading to greater student engagement and interest. Even previously passive students naturally participated in class, and peer interaction became more active. As a result, students' sense of achievement and satisfaction with school life also improved.

The Lenovo Chromebook, equipped with a built-in keyboard, helped improve elementary students' typing speed and allowed them to perform various web-based activities quickly and efficiently. Teachers used the Chrome Education Upgrade (CEU) to block access to certain websites and applications, while also managing learning more effectively through student account synchronization features.

Through learning activities using Google apps and Chromebooks, students experienced greater efficiency and convenience in organizing information, completing assignments, and using digital tools. The speed of lesson preparation and task execution increased, saving time and further boosting students' interest in learning through Google apps. With improved interaction and collaborative learning using Chromebooks and Google tools, students' overall engagement in class significantly increased.

Taken together, the use of Chromebooks and Google apps significantly enhanced students' understanding and ability to use digital devices and software, while also improving their adaptability to digital environments. In terms of AI literacy, students showed noticeable growth in their understanding of AI principles, applications, and societal impact. This serves as a strong example of the value of investing in digital infrastructure for future education.

"By applying Lenovo Chromebooks and Google apps in the classroom, students became more active and engaged overall, participating more enthusiastically and delving deeper into the lesson topics. This demonstrates the effectiveness of Chromebooks and related software in promoting student engagement.

Teachers also experienced positive changes, using Lenovo Chromebooks and software to provide more effective feedback and improve work distribution and efficiency. In particular, their enhanced ability to use technology led to significant improvements in both lesson content and instructional tool usage."

Source
Study on the Effectiveness of Google for Education Products, 2024-1 Albus Project, Center for Future Education Innovation, Seoul National University

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Lenovo is partnering with Google to operate the InnovED program, aiming to expand access to smart education through technology for all. Through this program, Lenovo supports future-ready learning environments and helps enhance the digital education capabilities of students, teachers, and schools.

Lenovo InnovED program provides access to Lenovo Chromebook and diverse resources from Google Workspace for Education, driving creative education for students and teachers as well as establishment of digital-based learning environments.

Take your first step into the future of smart education with the Lenovo InnovED.

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