Equipping students with AI literacy skills for the future of education

School at a glance

Goseo Elementary School, established in 1926, is known for its 'Small School Revitalization Programs' aimed at enhancing experiential and community-based learning. Nampyeong Middle School, recognized as a leading AI school and a 'Green Smart Future School' in 2021, also hosts multicultural classrooms that provide unique opportunities for adopting Google for Education (GfE) solutions.

Challenge

Jeonnam and several other provinces are confronted with the challenge of enhancing teaching and learning experiences in multicultural and small-sized classrooms. This pilot program could serve as a valuable case study for Boards of Education (BoEs).

Solution

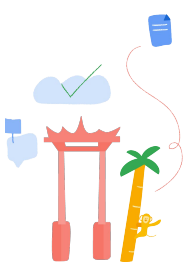
To address this challenge, Google for Education supports digital transformation, particularly by shifting its focus towards AI-driven tools within its ecosystem. The GfE team has selected Goseo Elementary School and Nampyeong Middle School for this pilot program in Jeonnam, which has received endorsement from the Jeonnam Board of Education (BoE).

Chromebooks were utilized to streamline teachers' tasks, enhance productivity, and create a more accessible learning environment for students.

Teachers participated in coaching sessions that introduced them to subject-specific technologies. This pilot program offered a meaningful opportunity to explore how students can be effectively introduced to generative AI and other AI-powered tools in small classroom settings.

> "The collaboration time and collaborative processes among students increased through the use of Google Slides, Jamboard, and other tools."

Teachers
Goseo Elementary School



Google for Education Lenovo intel

Key benefits

Overall, teachers perceived the impact of Google Workspace for Education as positive, mentioning benefits such as deeper student engagement, increases in collaboration and communication, and higher levels of digital literacy. **100% of teachers** agreed that students are **better equipped to find related knowledge for learning**, **express themselves more effectively**, and **demonstrate greater creativity and imagination** in completing tasks.

Developing AI literacy and capabilities

The pilot helped elevate both teachers and students to **higher levels of AI literacy**. **Teachers'** AI literacy increased from **3.47 to 3.88 on a 5-point** scale, while **students** with personal devices showed an increase from **3.91 to 4.38**. Among teachers, the most significant improvement was in supporting **administrative tasks**. Students demonstrated improvements in **problem-solving** and **critical thinking** skills with AI

Promoting collaboration in classrooms

Google for Education tools enabled teachers to **easily create collaborative activities and share content**, making classes more effective and enjoyable for students. **100% of teachers said that GWfE encouraged students to collaborate more** with their classmates. **85% of students reported that their classroom experience was enjoyable** with Google tools

Time saving for Teachers

66% of teachers reported that Google technology saved their time with **50% of them saving at least one hour per week**, especially on administrative tasks. Concurrently, **100% of teachers** observed **students completing assignments more quickly,** and **83%** of teachers agreed that **students absorb core subject matter faster** with the adoption of Google for Education tools.

Effective Education Device

Chromebooks were reported as the most consistent educational device. On average, Chromebooks were rated **higher than tablets on 100% of educational activities** for teachers (e.g., focusing student attention, providing feedback, supporting lesson planning).

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(*) Source: Post-pilot teacher survey, project Albus in Goseo Elementary School and Nampyeong Middle School (Jeonnam, South Korea)

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