Elementary School Strengthens Student’s 21st Century Skills
Seoul, South Korea

To develop 21st Century skills and increase participation and engagement amongst its students, Seoul Wonshin Elementary School implemented a 1:1 eLearning program with Intel®-based 2 in 1 PCs equipped with Intel Education Software.

**CHALLENGE:**
- Encourage class participation
- Develop self-directed learners
- Track student comprehension and achievement
- Reinforce 21st century skills

**SOLUTION:**
- Professional Development
- Curriculum and Assessment
- Information Communications Technology

**RESULTS:**
- Student participation and concentration rates improved
- Student attitudes and behaviors improved
- Students developed 21st century skills and used their skills to organize a thrift market as a 5th grade project

**Smart classrooms transform learning environment**

Students at Seoul Wonshin Elementary School in Seoul, South Korea, were struggling to focus on their schoolwork, which led to poor class participation and concentration. The students also needed to be more engaged with material that would encourage creativity, self-directed learning, and development of critical-thinking skills—all essential elements in a 21st century education.

Intel brought in a team of professionals to consult with teachers at the elementary school and develop a comprehensive education solution. The team included Professor Sung Ho Kwon of Hanyang University; Yong Shin Kim, a professional education consultant; and researchers from Intel® Education. With the help of the teachers, the team developed a smart classroom solution that included changes in three key areas: ICT, curriculum and assessment, and professional development.
The students were given Intel-based 2 in 1 devices that run Windows 8*. Several Intel Education Software applications ran on the computers, including Classroom Management, part of Intel Education. Classroom Management encourages classroom participation through features such as Co-Browser, which allows teachers to share their own or a student’s screen with the entire class. Teachers can also use the quiz and survey functions to instantly check each student’s understanding of a given lesson.

The Classroom Management application also makes classes more productive and efficient. Teachers can distribute information in seconds to one or all students. Students use the tool to register attendance, and teachers can check both student attendance and participation rates in seconds.

The school also uses Intel’s online Visual Ranking tool, which helps students apply critical thinking to the creation of ordered lists. The tool is one of several—including Intel’s Seeing Reason and Intel Showing Evidence tools—that encourages students to collaborate in small, interactive groups and enthusiastically share ideas.

Intel’s professional development programs helped the teachers understand how to use the 2 in 1 devices equipped with Intel Education Software. The training program also showed them how to prepare and integrate new curricula and teaching methods to take full advantage of the smart classroom environment.

**Single Project Demonstrates Impact of Smart Classroom**

The teachers at Seoul Wonshin Elementary School report that the smart classroom has led to greater student participation and concentration, improved collaboration, and a more productive class experience overall.

In one representative Smart Class Project, fifth-grade students prepared a thrift market called WeMarket, or Wonshin Education Market. The students used their 2 in 1 devices and Intel Education Solutions to plan and build the online market.

After watching video footage of underprivileged students in Africa, the students decided to create the market to raise funds to support them. They first talked about which items to sell in the market, and how much of the sales profits to send to students in Africa. Students used the Visual Ranking tool to rank and compare products in order of forecast sales volume. They used Intel’s Showing Evidence program to develop logical reasons to support their opinions, which they discussed in small groups. They also used Intel’s Seeing Reason tool to create a visual map of sales results.

The WeMarket project is just one example of how students at Seoul Wonshin Elementary School are using the new curriculum and tools to improve their 21st century skills. Projects such as these help develop better reasoning, problem-solving, communication, and collaboration skills—while also encouraging greater engagement, participation, and concentration.

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