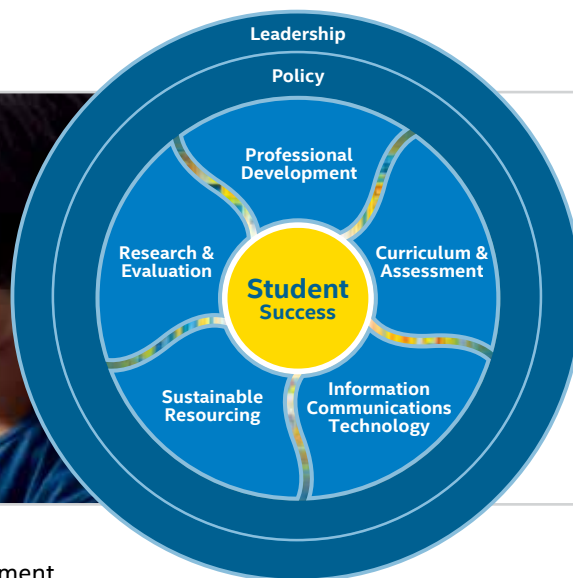


Elementary School Strengthens Student's 21st Century Skills

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.



Get Started Today!

Contact your local Intel representative to discuss how to transform education at your school or in your region.

For more information on Intel® Education visit www.intel.com/education

INFORMATION IN THIS DOCUMENT IS PROVIDED IN CONNECTION WITH INTEL® PRODUCTS. NO LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE, TO ANY INTELLECTUAL PROPERTY RIGHTS IS GRANTED BY THIS DOCUMENT. EXCEPT AS PROVIDED IN INTEL'S TERMS AND CONDITIONS OF SALE FOR SUCH PRODUCTS, INTEL ASSUMES NO LIABILITY WHATSOEVER, AND INTEL DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO SALE AND/OR USE OF INTEL PRODUCTS INCLUDING LIABILITY OR WARRANTIES RELATING TO FITNESS FOR A PARTICULAR PURPOSE, MERCHANTABILITY, OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT. UNLESS OTHERWISE AGREED IN WRITING BY INTEL, THE INTEL PRODUCTS ARE NOT DESIGNED NOR INTENDED FOR ANY APPLICATION IN WHICH THE FAILURE OF THE INTEL PRODUCT COULD CREATE A SITUATION WHERE PERSONAL INJURY OR DEATH MAY OCCUR.

Intel may make changes to specifications and product descriptions at any time, without notice. Designers must not rely on the absence or characteristics of any features or instructions marked "reserved" or "undefined." Intel reserves these for future definition and shall have no responsibility whatsoever for conflicts or incompatibilities arising from future changes to them. The information here is subject to change without notice. Do not finalize a design with this information.

The products described in this document may contain design defects or errors known as errata which may cause the product to deviate from published specifications. Current characterized errata are available on request. Contact your local Intel sales office or your distributor to obtain the latest specifications and before placing your product order. Copies of documents which have an order number and are referenced in this document, or other Intel literature, may be obtained by calling 1-800-548-4725, or by visiting Intel's Web site at www.intel.com.

Copyright © 2014 Intel Corporation. All rights reserved. Intel and the Intel logo are trademarks of Intel Corporation in the U.S. and/or other countries.