

Center for Digital Education Research

DIGITAL EDUCATION RESEARCH CENTER

We are committed to **education for all.**



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Greetings

The Digital Education Research Center has been actively living up to the value of life-long secondary education that has taken on a greater significance in our society today.

The Digital Education Research Center has been working hard to expand opportunities for digital-based regular education for the underprivileged and to provide customized education support services based on learner analysis. Moreover, the Center has created a teaching and learning environment based on intelligence information technology in order to offer secondary education suitable for a lifelong learning society. The Korean Educational Development Institute(KEDI) has walked through the entire history of the Digital Education Research Center together, and is very honored and proud to witness the progress the Digital Education Research Center has made so far.

Currently, our society is facing significant changes such as the advent of the 4th Industrial Revolution, decreasing the number of school-age population due to low birth rate, rapid movement towards a multi-cultural society, and creation of favorable environment for inter-Korean cooperation.

Accordingly, the future society calls

for talents with creative and convergent thinking competency who will create value for sustainable development, education reform and innovation. For this, the Digital Education Research Center has set out the vision for 'establishing a customized and open learning system through the convergence of education and intelligence information technology' and stepped up efforts to heighten its status as the central digital education research center in Korea.

KEDI is committed to supporting the Digital Education Research Center as it continues to develop as the hub for educational innovation by taking initiatives in realizing progressive education policies for the underprivileged, as well as connecting Ministry of Education, Metropolitan and Provincial Offices of Education, and schools around the nation.

In addition, we will secure our competitive edge through continuous research and policy development and flexibly respond to the changes in education associated with the 4th Industrial Revolution.

Envisioning a fully inclusive society, we pledge to put all our efforts into creating educational innovation for the underprivileged. We would like to ask you to give us your continued interest and strong support.

President of KEDI *Ban. Sangjin*

History

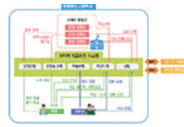
1973 ~

- Feb 1973 Set out a plan to reform high school entrance examination system and to establish Open High Schools (Ministry of Education)
- Mar 1973 Consigned research for the establishment of Open High Schools to KEDI(Ministry of Education)
- Mar 1974 Founded 11 Open High Schools (in Seoul and Daegu)
Implemented the radio broadcasting lecture system and offline classes at Open High Schools
- Sep 1976 Enacted regulations on educational credential assessment test for graduation of students who have completed the Open High School curriculum (Decree of Mistry of Education)
- Feb 1977 Held the 1st graduation ceremony of Open High Schools (Number of graduates: 2,680)



1987 ~

- Mar 1987 Established 50 Open High Schools in 26 cities and 1 rural community (Number of students: 48,067)



2004~

- Mar 2004 Built the cyber education system at Open High Schools
Ran model schools of cyber education designated by the Ministry of Education, Science and Technology(3 schools)
- Mar 2006 Began cyber education system for freshmen at Open High Schools
Abolished the educational credential assessment test for graduation
- Mar 2008 Applied cyber education system for all grade levels at Open High School
Founded an Open High School affiliated with Howon High School(Gyeonggi) (total number of schools: 40)

2011 ~

- Jan 2011 Restructured Open Middle Schools' operation system and established the plan to support the underprivileged including dropouts through distance education(The plan to build Open Middle Schools was included, Ministry of Education, Science and Technology)
- Aug 2011 Revised the 'Degree on Standards for the Establishment of Open High Schools' & enforcement regulations (Adopted credit-based certification system (current Learning Experience Recognition System))
- Jan 2012 Revised 'Elementary and Secondary Education act' (No.11219) (Laid the ground for the establishment of Open Middle Schools)
- Mar 2012 Began mobile learning services at Open High Schools
Introduced Learning Hours Recognition System in Open High Schools (current Learning Experience Recognition System) and ran model schools (3 schools)
- Sep 2012 **Ran Online Classes (in High Schools)**





2013~

- Mar 2013 Founded Open Middle Schools affiliated with Daegu High School(Daegu), Gwangju Buksung Middle School (Gwangju) (total number of schools:2)
Implemented Learning Experience Recognition System at Open Secondary Schools
- Mar 2014 Founded 4 Open Middle Schools affiliated with Daejeon Bongmyeong Middle School(Deajeon), Suwon Jeil Middle School, Howon Middle School(Gyeonggi), Kyongwon Middle School(Gyeongnam) (total number of schools: 6)
Founded 2 Open High Schools affiliated with Sangdong High School and Seohyun High School(Gyeonggi) (total number of schools: 2)
- Mar 2015 Founded 6 Open Middle Schools affiliated with Ahyeon Middle School(Seoul), Namchuncheon Middle School & Wonju Middle School & Gangneung Middle School(Gangwon), Jeolla Middle School(Jeonbuk), Jinju Middle School (Gyeongnam) (total number of schools: 12) Established e-School system for student-athletes
- May 2015 Established e-School online learning system for student-athletes
- Sep 2015 Ran online classes (in Middle Schools)

2016~

- Feb 2016 Held the 1st graduation ceremony for Open Middle School (the number of graduates: 201)
- Mar 2016 Founded 8 Open Middle Schools affiliated with Hwaryong Middle School(Busan), Guvvol Girls' Middle School(Incheon), Haksung High School(Ulsan), Sampyung Middle School(Gyeonggi), Mokpo Jungang Girls' Middle School & Suncheonyeonhyang Middle School(Jeonnam), Jeju Jeil Middle School(Jeju)(total number of schools: 20)
- May 2016 Established a distance learning system for students with health impairment
- Mar 2017 Newly established a youth class in Open Middle Schools affiliated with Jeju Jeil Middle School
Ran a distance learning class for middle school students with health impairment
Implement e-Schools for student-athletes for Open Secondary Schools in full (the number of schools: 2,370, the number of students who attended: 40,128)
Ran pilot projects to support the unschooled and school dropouts who are subject to compulsory education (6 cities and provinces)
- Jun 2017 Ran pilot projects to support Online Common Education Course (6 cities and provinces)
- Jul 2017 Opened e-School run-up courses for student-athletes (to meet basic academic capability)
- Sep 2017 Ran real-time video conference classes for students with health impairment
- Nov 2017 Revised 'Enforcement Decree of Elementary and Secondary Education Act'(Laid the ground to run a pilot project to support the unschooled and school dropouts who are subject to compulsory education)
- Dec 2017 Revised 'Enforcement Decree of Standard for the Establishment of Open Secondary Schools,(President Decree No. 28517) (Laid the ground to shorten and extend the years required for graduation)
Established the learning management system to support the unschooled and school dropouts who are subject to compulsory education

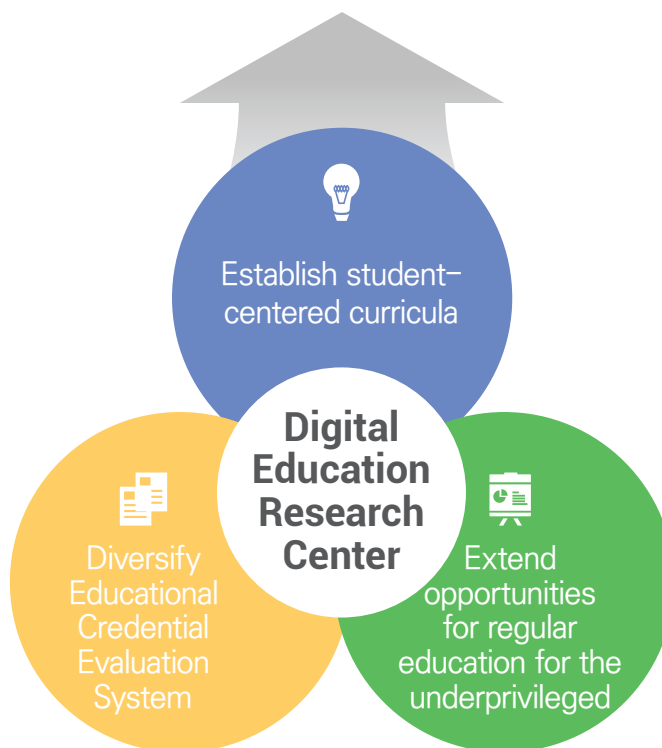


2018~

- Mar 2018 Founded 3 Open Middle Schools affiliated with Jusung Middle School(Chungbuk), Cheonan Middle School(Chungnam), Pohang Middle School(Gyeongbuk) (total number of schools: 23)
Ran pilot projects to support Online Common Education Course (11 cities and provinces)
- Apr 2018 Implemented the 1st educational credential assessment of pilot projects to support the unschooled and school dropouts who are subject to compulsory education (4 students' academic achievements were acknowledged)
- Oct 2018 Held the 1st distance class offline camp 'Let's go together, friends' for student with health impairment
- Dec 2018 Established the online assessment system for online classes
- Jan 2019 Changed the name of 'distance classes for students with health impairment' to 'School For You'
Revised the part of 'Guidelines for managing students' school record,' (Directive No.280) (set a criteria to record the result of online class completion)
- Mar 2019 Founded Open Middle School affiliated with Hongseong Girls' Middle School (Chungnam) (the number of schools: 24)
Developed elementary school courses for School For You
Extended pilot projects to support the unschooled and school dropouts who are subject to compulsory education (15 cities and provinces)
Ran pilot projects to support Online Common Education Course (17 cities and provinces)

Vision and Objectives

Establish a customized open learning system by integrating education and intelligence information technology

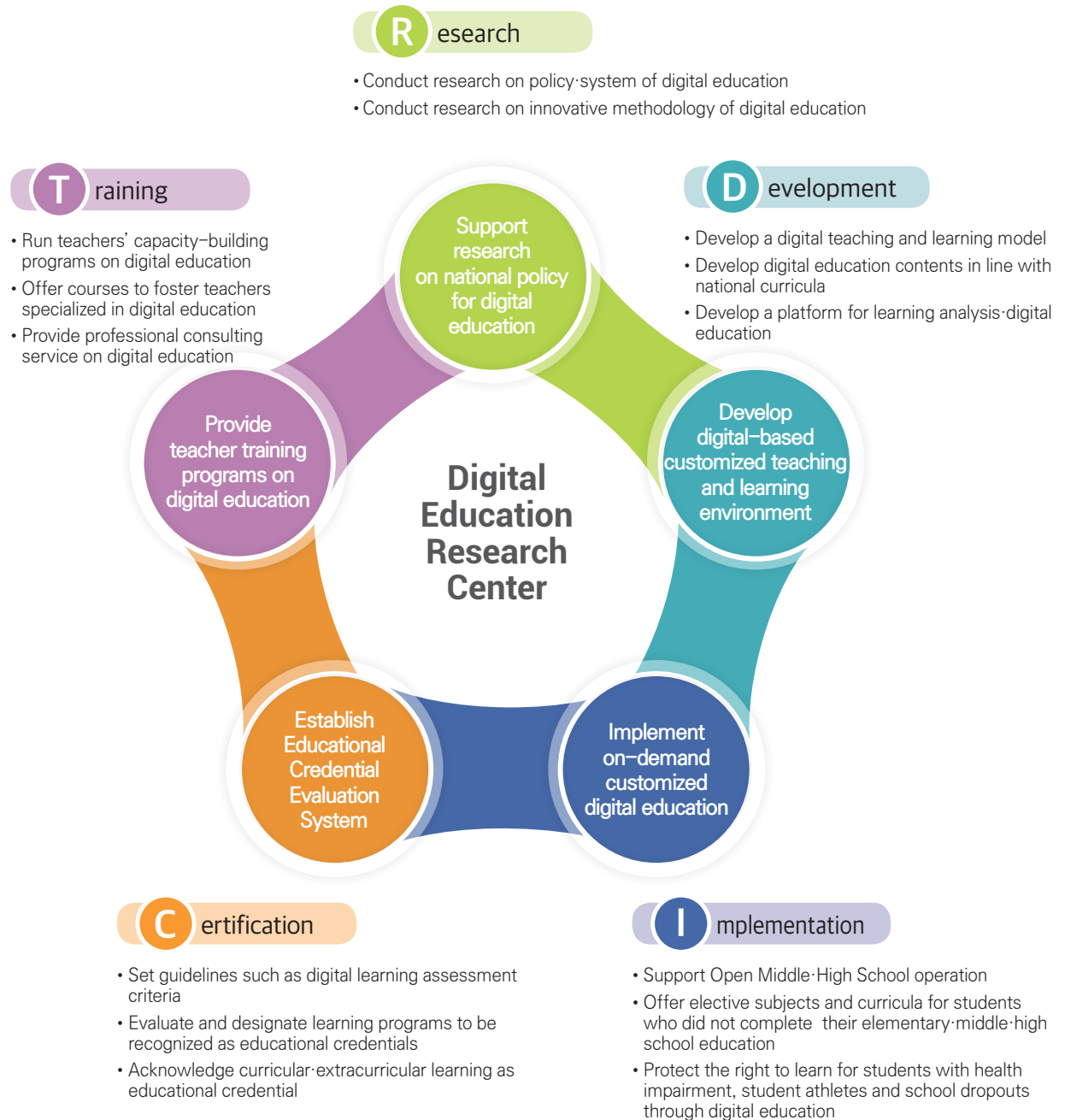


Key initiatives

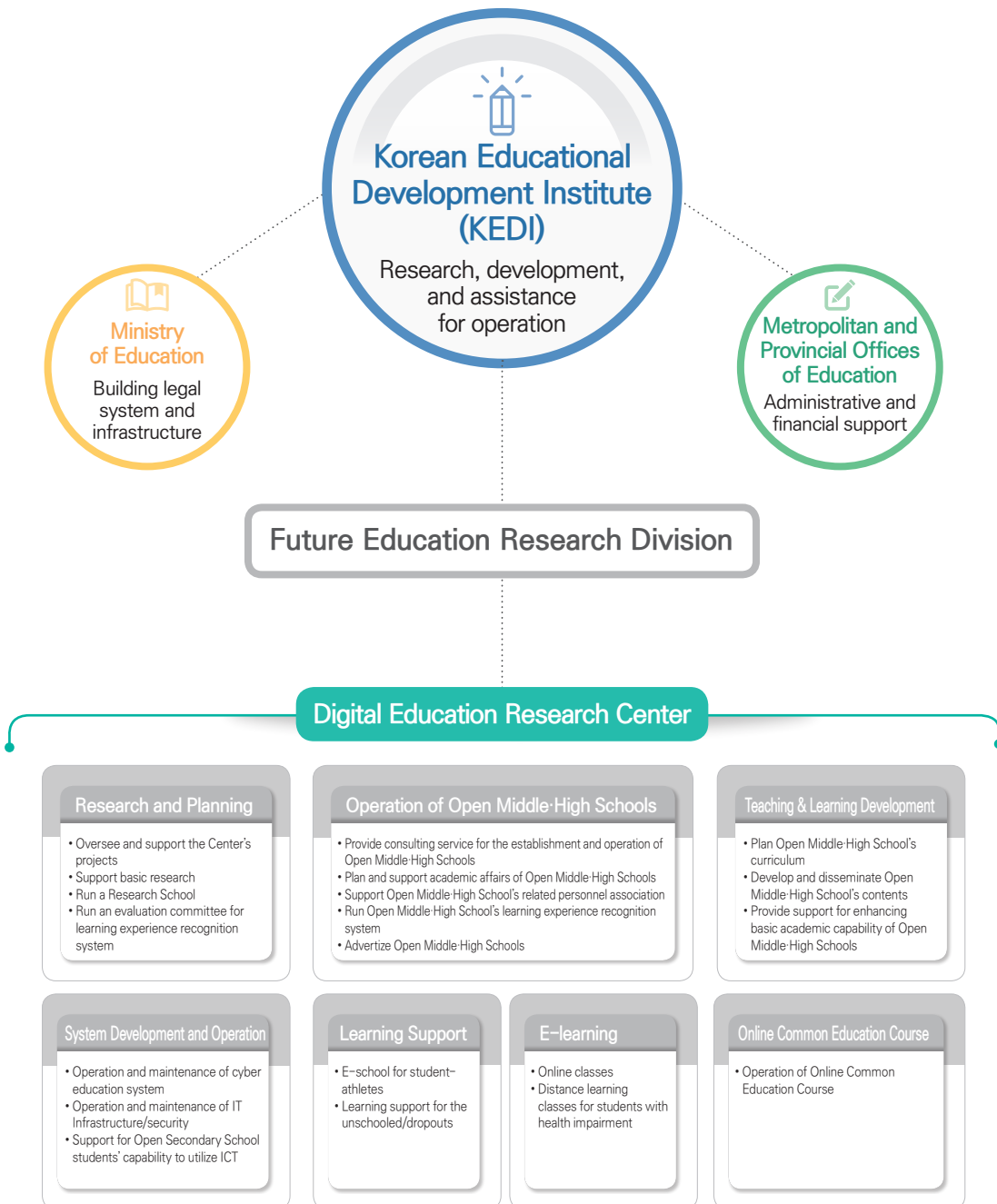
- Boost the Center's standing as a central digital education research center
- Facilitate the effectiveness of student-customized online education curriculum following the introduction of High School Credit System
- Establish an education support service model for customized education based on learning analysis
- Facilitate the Educational Credential Evaluation System which recognizes extra-curricular learning
- Extend the role of Open Secondary Schools by being open to school-age students and switching to digital schools
- Conduct a feasibility study on the establishment of a digital school as a regular school

Roles and Functions

R&D for ICT



System and Organization



Projects

The Digital Education Research Center has pushed ahead with education support projects for the underprivileged.

Projects for those who do not obtain middle school diploma



Establishment and Operation of Open Secondary Schools

- Establish operation systems of Open Secondary Schools
- Analyze prospective students and provide consulting services for the establishment-operation
- Offer specialized programs considering the characteristics of students
 - Provide education curricula that correspond with the characteristics of Open Secondary Schools
 - Create and operate the Credit Recognition System for extracurricular learning experience
 - Introduce the Credit System and offer flexibility in duration required for graduation

Projects for school-age students enrolled in Open Secondary School

Offer online classes to strengthen the right to learn and select subjects



- Address the problems of general middle and high school students not completing the required curriculum and to offer additional subjects to choose from
- Set guidelines for online classes consigned by Metropolitan and Provincial Offices of Education
- Improve the criteria and method of assessing online class achievement
- Determine what and how to record in the students' school record for online class achievement



- Provide online classes to fulfill the right to education for student-athletes
- Enhance student-athletes' lowered academic ability caused by their absence from class
- Provide programs to assist students who lack basic academic ability



- Fulfill the right to education and help students get back into learning
- Improve the quality of education for students with health impairment
- Help students gain emotional stability
- Set up a system tailored to students with health impairment



- Strengthen the right to select subjects for students who have chosen unavailable subjects and those who live in rural area
- Offer a two-way, real-time online education system for 24/7 access
- Have the Credit System in place as a groundwork to support education policies and strategies

Projects for the unschooled and dropouts



Support and recognize their academic achievement

- Provide opportunity to gain recognition and develop programs to support learning for out-of-school students
- Set criteria and system to acknowledge academic achievement for out-of-school students
 - Form-run a committee and procedures of Educational Credential Evaluation
- Establish criteria and system of learning support program for out-of-school students
 - Form-run a committee, indicators, criteria, and procedures of designation

For students without secondary education qualification

Open Middle·High Schools

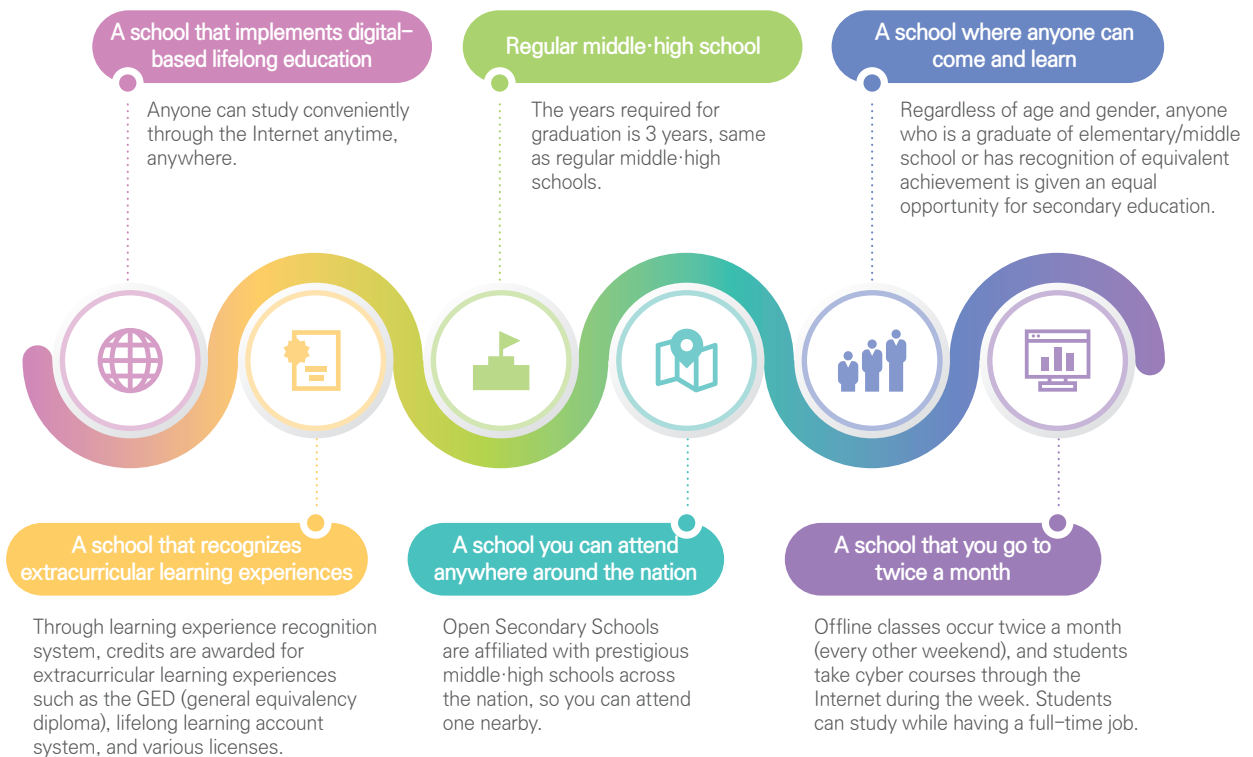
Open Middle·High Schools are established as affiliated schools at 66 public middle·high schools across the nation in order to provide learning opportunity for those who do not have secondary education qualification.

※ Relevant grounds : Article 10 of 「Degree on Standards for the Establishment of Open Middle School and Open High Schools」

Target

Those who have not completed secondary education (who did not obtain middle school or high school diploma)

Operation Method



Educational Method



Students have face-to-face classes with teachers by attending classes twice a week and experience other various school programs including entrance ceremony, graduation ceremony, picnic, field learning, festival, intramural athletics, school trip, school competition, paper, and examination etc.



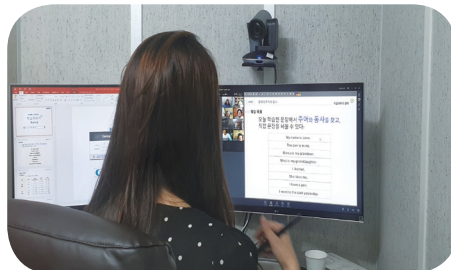
Customized Education Programs

▶ Learning Support Programs for Open Middle-High Schools

- Support students in learning subjects in regular curricula such as English and Math
- Provide Online Tutoring Services
- Implement Basic Academic Capability Assessment
- Provide contents tailored to individual levels and real-time video lectures

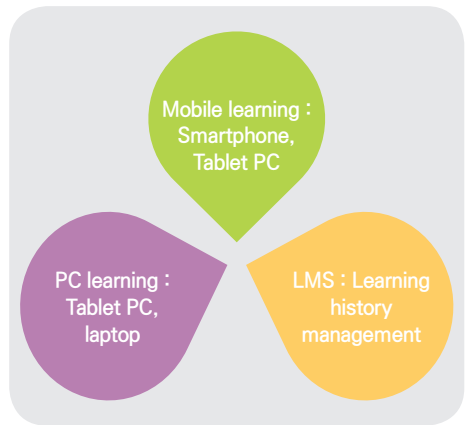
▶ ICT Classes in Open Middle Schools

- Provide Information Technology education to new students at Open Middle Schools
- Offer on-site consulting services delivered by professional instructors
- Provide basic computer skills




Distance Learning Classes

Smart learning environment is available through various learning media such as PC, and smartphone etc. Students can learn easily and conveniently – anywhere, anytime!



Taking a distance learning class

Smart learning environment

▶ **Self-understanding Program for Open Middle Schools**

- Help students adapt to school life
- Conduct a survey on students
- Provide professional instructors' explanatory lectures on results
- Offer student-led activity programs

▶ **Classes for Character Building·Career Path**

- Enhance students' ability to learn and adapt
- Conduct personality test-career test for students
- Analyze how mature students are in terms of personality development and provide counseling



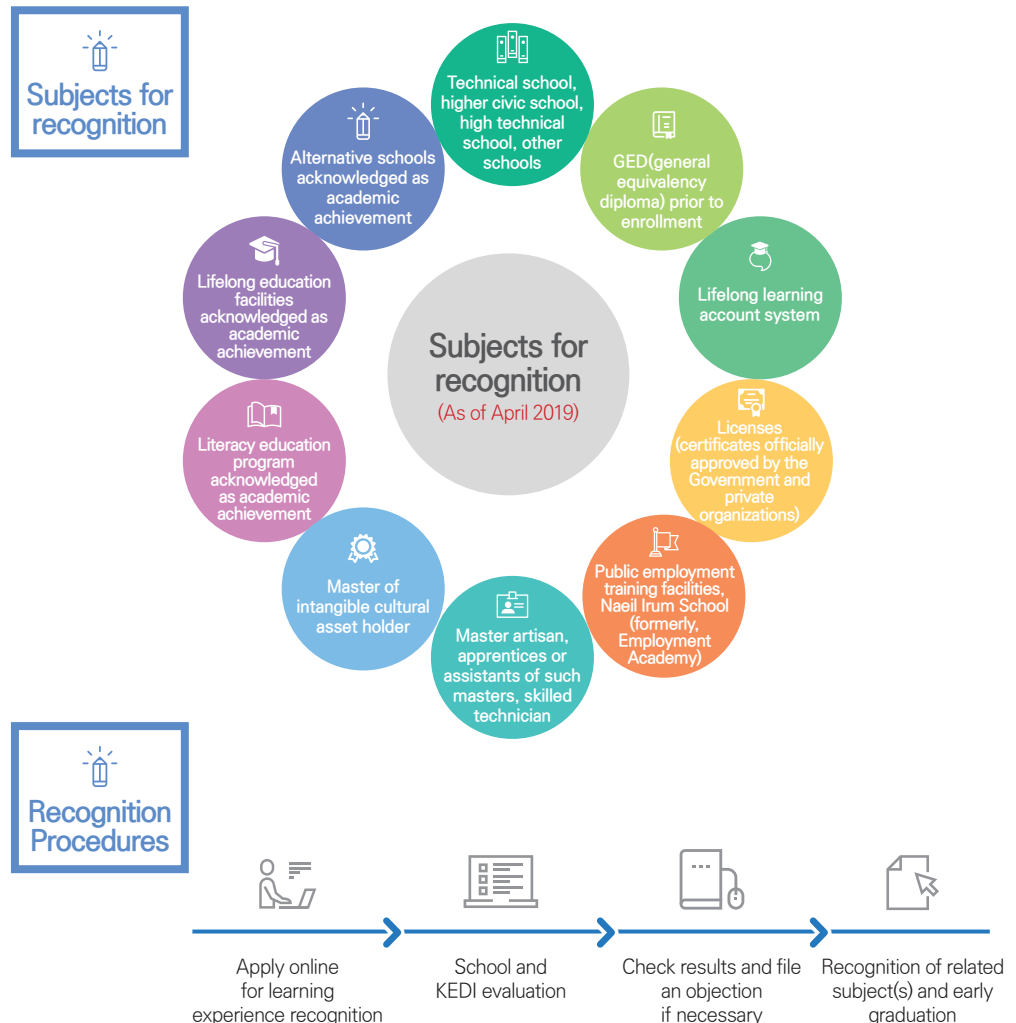
Operation System

Recognition of prior learning

When students of Open Secondary Schools have learning experiences outside of school, they can get their experiences evaluated to see if they can get them recognized as the equivalent of a related open secondary school's course.

For subjects recognized and assigned to the 3-year courses, students can get excused from a class or exam. If students earn many credits awarded for extracurricular learning experiences, they can graduate up to a year earlier.

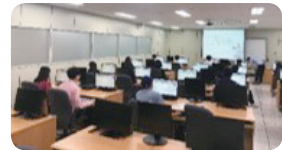
※ Relevant grounds : Article 3-2 of 「Degree on Standards for the Establishment of Open Middle School and Open High Schools,」 (Presidential Decree No. 24423)



For enrolled school-age students Online Class

Middle School ms.onlineschool.or.kr
High School hs.onlineschool.or.kr

Online class, or distance learning system is designed to fulfill the right to learn and the right to choose subjects for transfer students by providing online classes for subjects that is difficult to delivered.

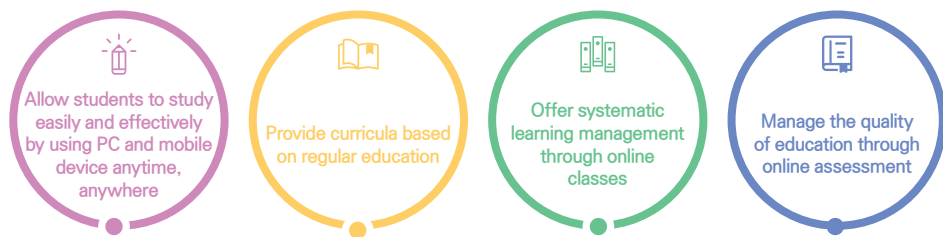


※ Relevant grounds : Article 24 and Enforcement Ordinance No. 48 of 「Elementary and Secondary Education act」

Target

Middle and high school students who are transfer students who need to complete some elective subjects

Features




Details of Online Classes

Utilize education contents based on regular middle·high school curricula (utilize online lectures of Open Middle·High Schools)


Subjects provided

32 Curricula for middle school



Curricula revised in 2009

45 curricula for high school

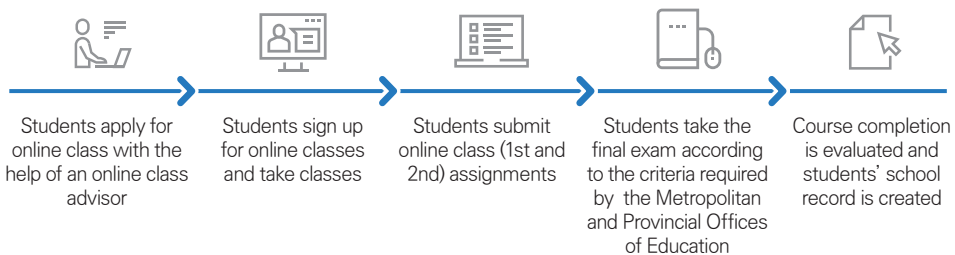


Curricula revised in 2015

※ As of 1st semester of 2019
 ※ A student is allowed to apply up to 2 online classes every semester.

Procedures

※ Schedule: From April to July during the 1st semester / From September to December during the 2nd semester



For enrolled school-age students e-School for student-athletes

Middle School
High School

ms.e-school.or.kr
hs.e-school.or.kr

e-School is designed for student-athletes who have missed classes due to athletic competition and practice sessions.

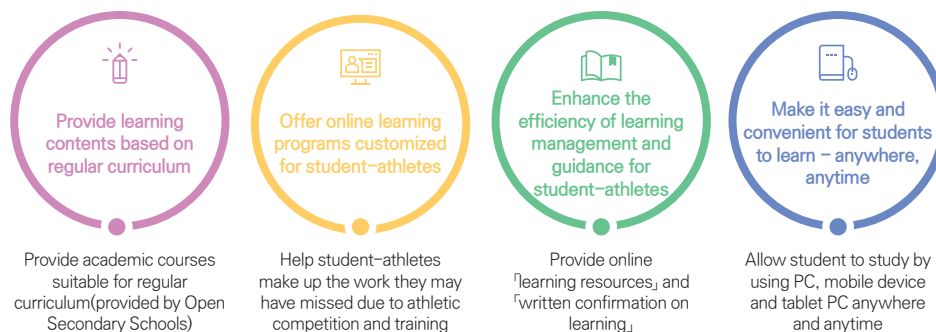
※ Relevant grounds : Article 6 and Article 11 of 「School Sports Improvement Acts」



Target

Middle·High Schools in which student-athletes are enrolled

Features



Details of e-School

	Regular Curriculum	Run-Up Curriculum
Details	Help student-athletes make up the class missed due to athletic competition and training, Provide programs for supporting learning on a regular basis	Programs are given during winter vacation to ensure basic academic capability underachieving student-athletes
Target	Middle·High Schools in which student-athletes are enrolled	Student-athletes in middle schools who score less than 40% of the average score, student-athletes in high school who score less than 50% of the average score
Subjects	Autonomous assignments from regular curriculum contents provided by Open Secondary Schools	Middle school(5 subjects): Korean, English, Math, Social Studies, Science High School (3 subjects) : Korean, English, Social Studies (classes are subject to change.)
Schedule	From March to August during the 1st semester/ From September to the end of December during the 2nd semester	Summer vacation : 3rd week of July ~ September Winter vacation: 3rd week of December ~3rd week of February in the next year

Procedures



For enrolled school-age students

School For You

(students with health impairment)

Middle School s4ums.onlineschool.or.kr
 High School s4uhs.onlineschool.or.kr

School For You refers to an online learning system which is designed to help students with health impairment who have difficulties in attending schools, allowing them to pursue their educational experience.



※ Relevant grounds : Article 3 and Enforcement Ordinance No. 10 of 「The Act on Special Education for Disabled Persons」 and Enforcement Ordinance No. 48-1 of 「Elementary and Secondary Education act」

Target

Middle High school students who are identified as having health impairments by Metropolitan and Provincial Offices of Education or who are found eligible for School For You because of long-term medical treatment

Features

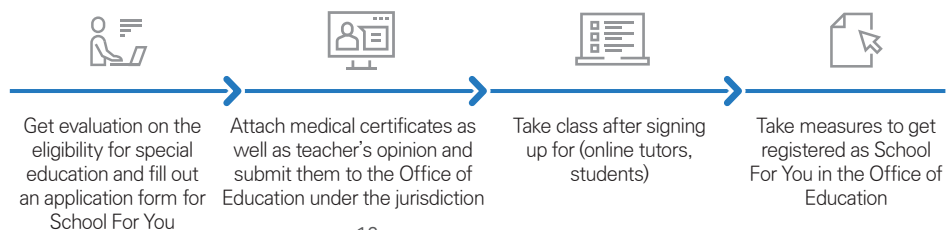
 Convenient learning system, online class	 Real-time video-conference class together with peers	 Easy attendance management	 Learning management and support from online tutors
<ul style="list-style-type: none"> • Students can begin right away when they sign up for membership • Allow students to access schoolwork 24/7 from anywhere • Provide a customized class allowing students to choose subjects and chapters • Offer various subjects for each student 	<ul style="list-style-type: none"> • Provide real-time class for major 5 subjects (Korean, English, Math, Social Studies, Science) • Meet teachers and classmates through a video class system 	<ul style="list-style-type: none"> • Students and teachers can check attendance status easily 	<ul style="list-style-type: none"> • Assign a personal online tutor for each student • Provide learning management and counseling service on a periodic basis • Face-to-face, offline conversation • Q&A session via homepage and video call

Details of School For You

	Online class	Video-conference class
Subjects	Utilize contents developed within the framework of regular middle-high school curriculum <div style="background-color: #f4a460; padding: 2px; text-align: center; margin: 5px 0;">Curricula revised in 2009</div> 19 curricula for middle school, 45 curricula for high school <div style="background-color: #f4a460; padding: 2px; text-align: center; margin: 5px 0;">Curricula revised in 2015</div> 15 curricula for middle school, 36 curricula for high school	Real-time video-conference classes developed within the framework of regular middle-high school curriculum – 5 subjects in total (Korean, English, Math, Social Studies, Science)
Schedule	The 1st semester: Mar 11(Mon), 2019 ~ Jul 28(Sun), 2019 Summer break: Jul 29(Mon), 2019 ~ Aug 18(Sun), 2019 The 2nd semester: Aug 19(Mon), 2019 ~ Jan 12(Sun), 2020 Winter break: Jan 13 (Mon), 2020 ~ Mar 2(Mon), 2020	Video-conference class in the 1st semester(15 weeks): 1st week of Apr ~ 2nd week of Jul Video-conference class in the 2nd semester(15 weeks): 1st week of Sep ~ 2nd week of Dec

※ Elementary school curriculum developed in 2019 and planned to be implemented in 2020

Procedures



For enrolled school-age students Online Common Curriculum

classon.kr

A number of schools sign up to participate in online course-sharing consortium, or Online Common Curriculum. The goal is to provide real-time/interactive online classes registered by a small number of students or faced with challenges in supply of teachers.



※ Relevant grounds : Article 24 and Enforcement Ordinance No. 48 of 'Elementary and Secondary Education act,

Target

High school students who wish to take unavailable classes

Features



• Video-centered and one-way class → real-time/interactive class → a wide range of classes including reverse class, blended learning, and discussion etc.



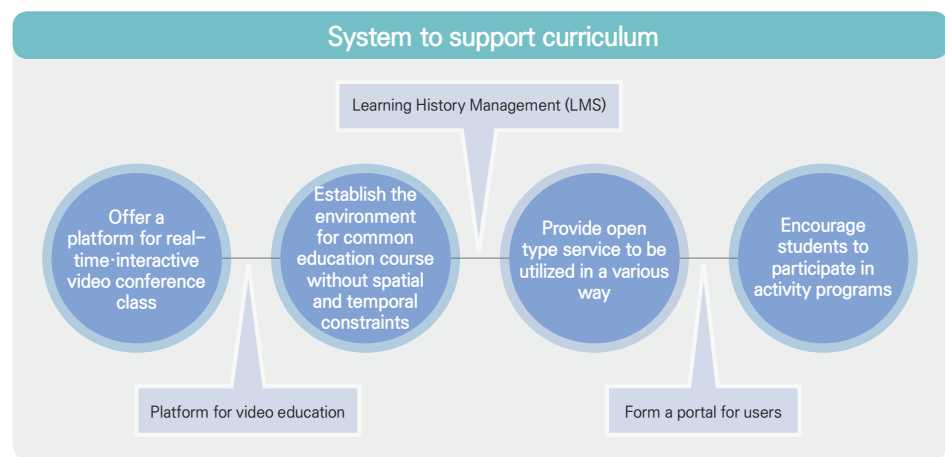
• Remove spatial and temporal constraints by using IT technology → Provide a wider range of academic options, a wealth of learning opportunities which will fit students' skill, interest, and career path

Details

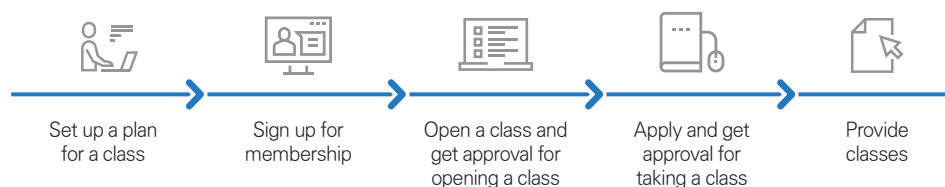
Provide a wealth of learning opportunities with students

– Offer real-time/interactive, student-centered and intensive courses with a small number of students such as discussion, project activities etc.

Operation System



Procedures



For the unschooled and school dropouts

Support for the unschooled and school dropouts

www.educerti.or.kr

Support for the unschooled and school dropouts is aimed to provide various learning support programs and award credits for extracurricular experience for the unschooled or school dropouts who are subject to compulsory education but have difficulties in getting back to schools, thus enabling students to pursue their study and get recognition of academic achievement.

※ Relevant grounds : Article 29, 96, 97 and 98-2 of Enforcement Ordinance of 「Elementary and Secondary Education act」

Target

Those who have not advanced to elementary or middle schools aged under 24 years old

Features

Currently, the only availability is for middle school curriculum, which is developed based on the online lectures of Open Middle Schools



Learning support program which covers various curricula such as educational and supportive curriculum for character building-career path

Award credits and acknowledge learning experiences such as the GED (general equivalency diploma), various licenses, and diploma from alternative schools as academic achievement

Recognition of Academic Achievement

Students can gain recognition for their elementary and middle school diploma through educational credential assessment with licenses, learning experience for regular curriculum, and completion of learning support programs.

Qualification for recognition

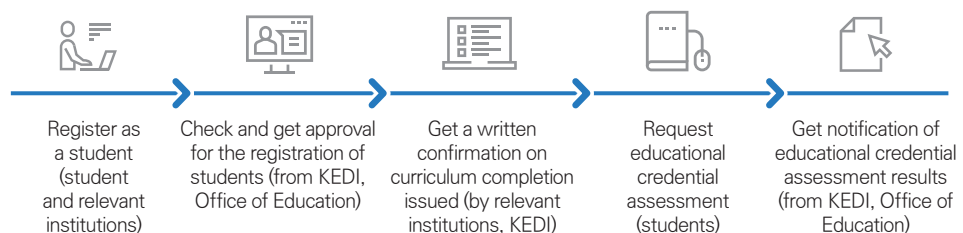
※ Refer to the Homepage for the detailed hours of classes by subject

Minimum period for learning more than 4 years for elementary school students, more than 2 years for middle school students

Minimum age After Mar. 1st of the year when students in Elementary School are 13 years old, and Middle School students are 16 years old.

Hours of classes more than 4,692 hours for elementary school students, more than 2,652 hours for middle school students

Procedures





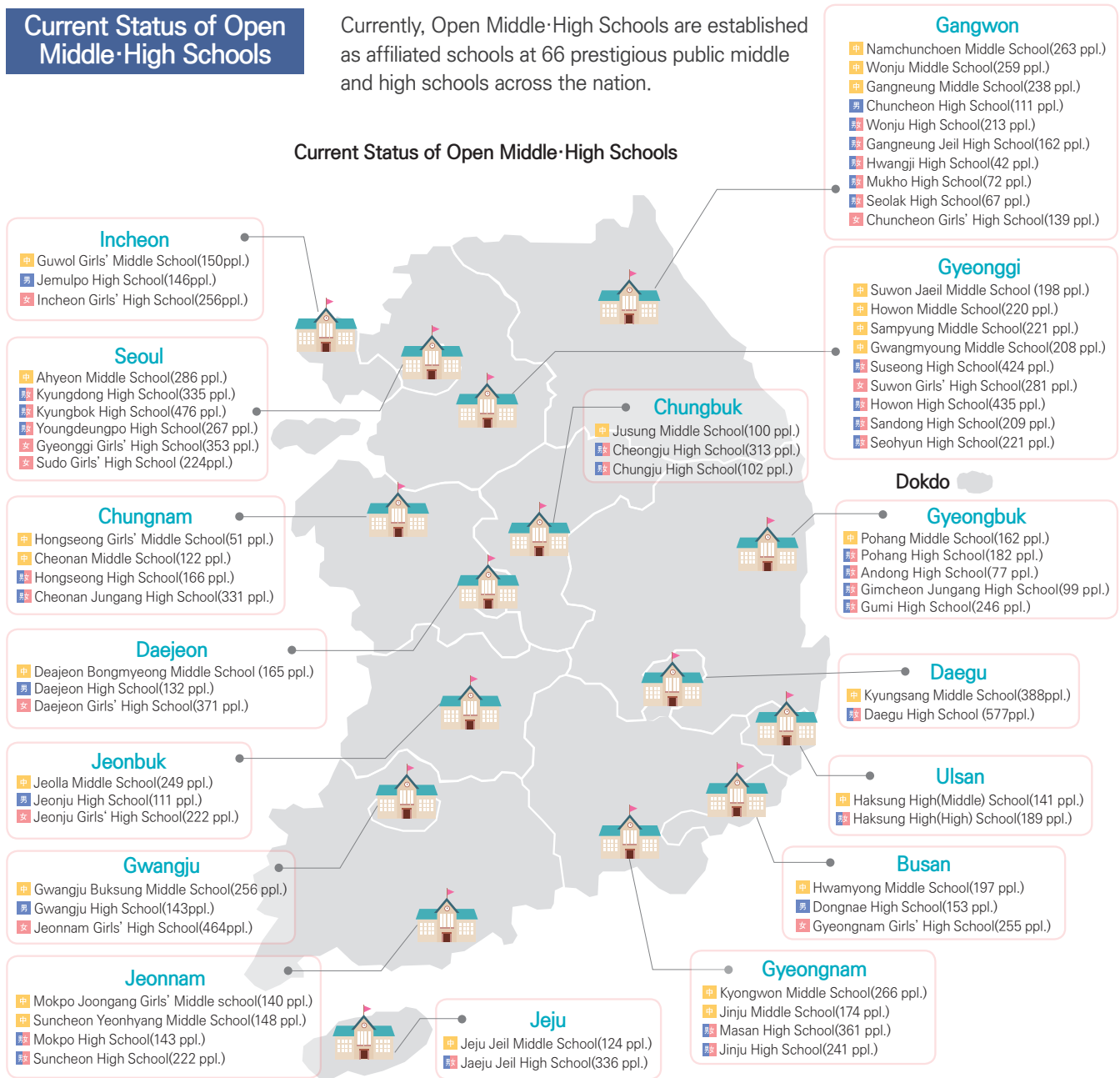
Current Status of Operation

Current Status of Operation

Current Status of Open Middle·High Schools

Currently, Open Middle·High Schools are established as affiliated schools at 66 prestigious public middle and high schools across the nation.

Current Status of Open Middle·High Schools



※ As of Apr. 1st, 2019

Open Middle School

Total number of schools: 24 / Total number of students: 4,726

Co-education school : 24

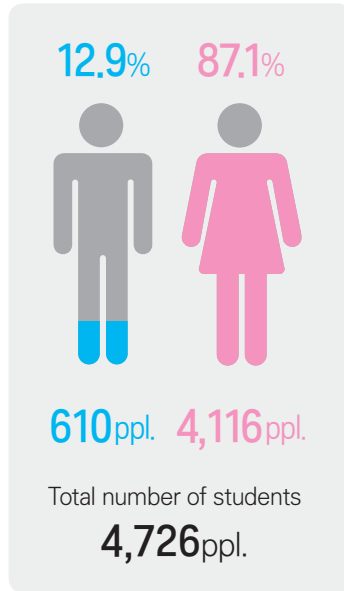
Open High School

Total number of schools: 42 / Total number of students: 9,869

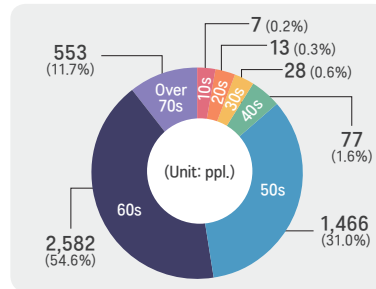
Boys' school : 5 / Girls' school : 9 / Co-education : 28

Open Middle School Statistics

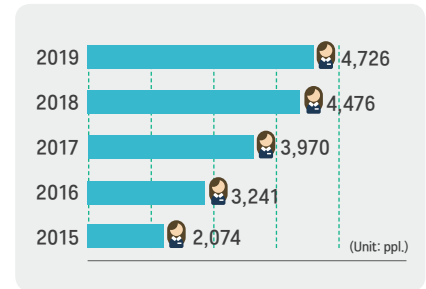
Students by gender (female/male)



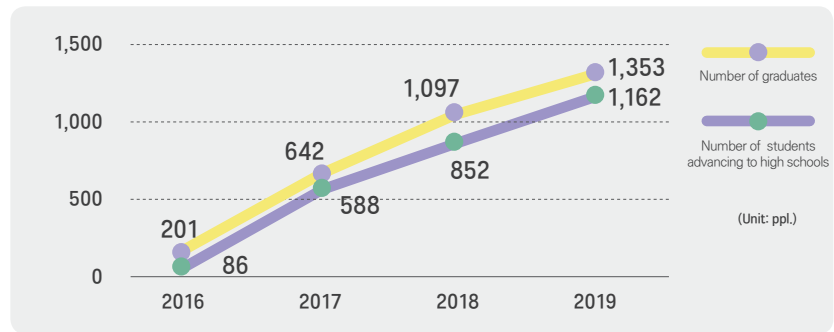
Students by age



Number of students over the past 5 years

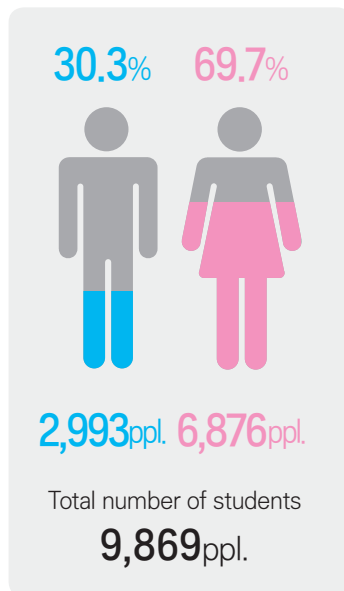


Number of graduates and students advancing to high schools over the past 4 years

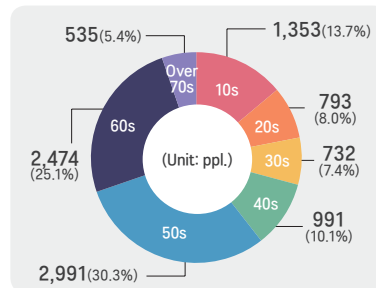


Open High School Statistics

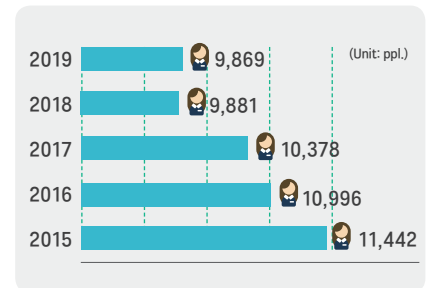
Students by gender (female/male)



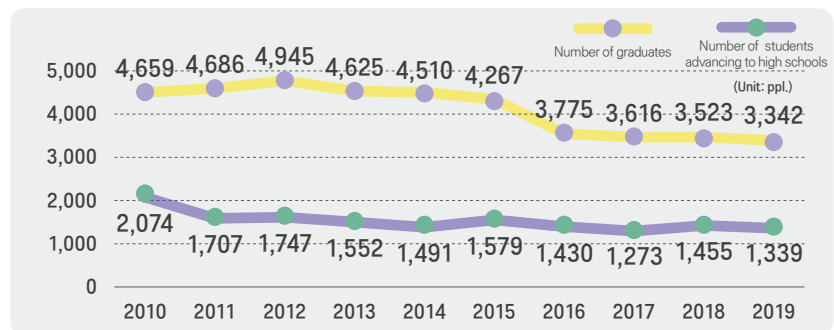
Students by age



Number of students over the past 5 years



Number of graduates and students advancing to high schools over the past 10 years



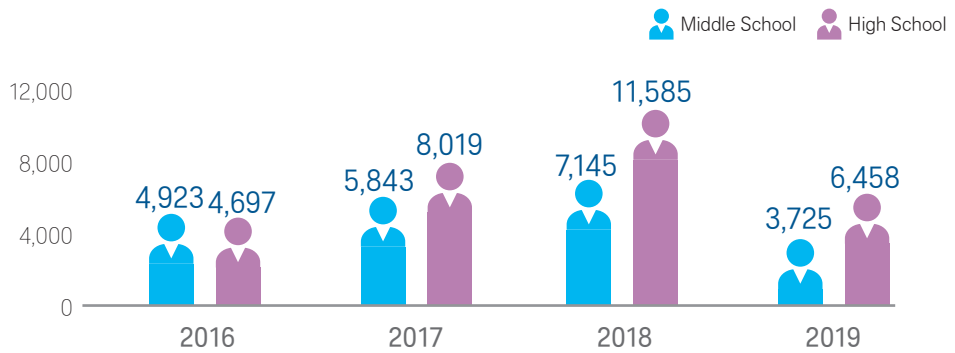
Current Status of Operation

Current Status of Online Class

The number of students who apply for online classes by year

(As of Apr. 2019, Unit: ppl.)

Classification		2016	2017	2018	2019
The number of students applying for online classes	Middle School	4,923	5,843	7,145	3,725
	High School	4,697	8,019	11,585	6,458

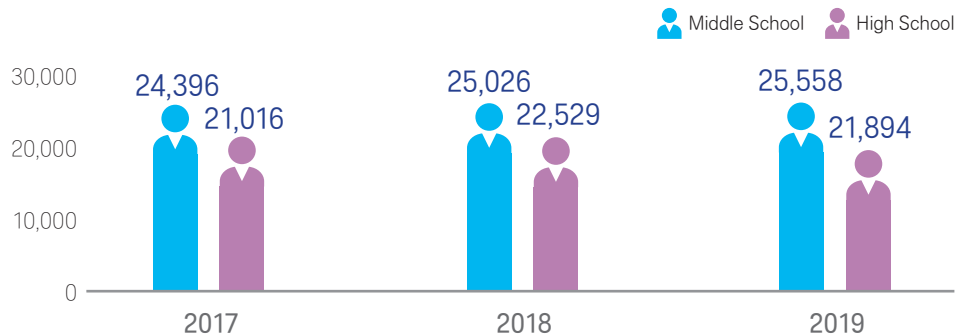


Current Status of e-School

The number of students who apply for e-School by year

(As of Apr. 2019, Unit: ppl.)

Classification		2017	2018	2019
The number of students applying for e-School	Middle School	24,396	25,026	25,558
	High School	21,016	22,529	21,894

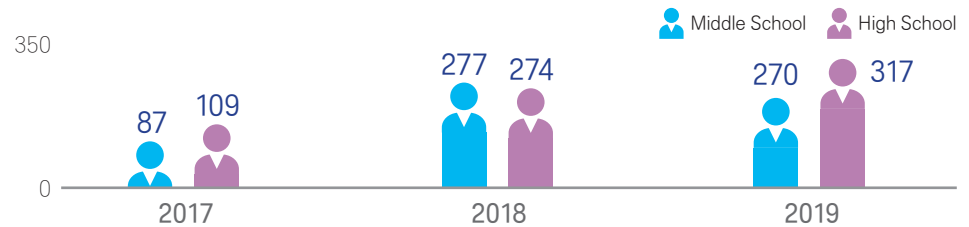


Current Status of School For You

The number of students who apply for School For You by year

(As of Apr. 2019, Unit: ppl.)

Classification		2017	2018	2019
The number of students applying for School For You	Middle School	87	277	270
	High School	109	274	317

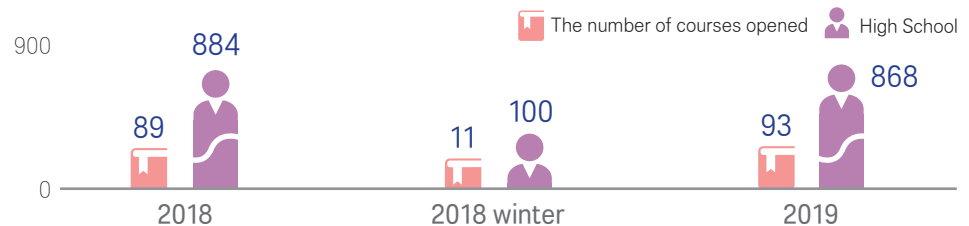


Current Status of Online Common Curriculum

Current Status of Online Common Curriculum operation by year

(As of May 2019, Unit: ea., ppl.)

Classification		2018	2018 winter semester	2019
The number of courses opened		89	11	93
The number of students applying for the course	High School	884	100	868

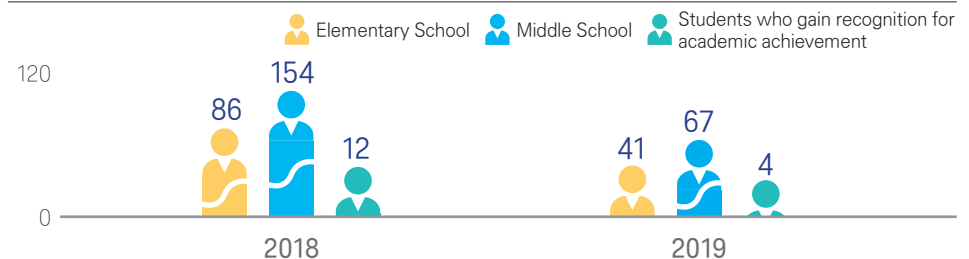


Current Status of the unschooled-dropouts

Current Status of the unschooled-dropouts by year

(As of May 2019, Unit: ea., ppl.)

Classification		2018	2019
The number of students	Elementary School	86	41
	Middle School	154	67
The number of students who gain recognition for academic achievement		12	4



The Digital Education Research Center

is committed to being at the forefront of education for all by forming a customized and open learning system with the convergence of education and intelligence information technology in order to provide additional learning opportunities and to fulfill the right to education.





Give yourself the opportunity to realize your long-awaited dream of studying!

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Open Middle-High School | 1544-1294

School For You(students with health impairment) | 043-530-9735

Class Ondot(Online Common Education Course) | 043-530-9164

Online Classes | 043-530-9759

e-School for student-athletes | 043-530-9757

Learning support for the unschooled dropouts | 043-530-9733

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