

# National Assessment of Educational Achievement (NAEA) Overview – 2010 Results and Implication

HeeKyoung Kim  
(KICE)

한국교육과정평가원

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## 1. OVERVIEW OF NAEA

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### 1. Overview of NAEA

#### Education System in Korea

	Elementary School					Middle School			High School			
Grade	1	2	3	4	5	6	7	8	9	10	11	12

\* Korea has a 6-3-3 year system to finish high school

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### 1. Overview of NAEA

#### Purpose of NAEA

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### 1. Overview of NAEA

#### 2010 NAEA Framework

Grade	Subject	Time-limit	Test date	Item	Test
6	Korean	Each test 40 min	2 days (July 13-14)	MC & CR	Multiple test forms* : Forms G, A, B, C, D
	Social Studies	Survey 20 min			
9	Math	Each test 60 min	1 day (July 13)		
	Science	Survey 20 min		Teacher survey (sample)	
11	English (Survey)	Each test 60 min			
	Korean	Each test 60 min			
	Math	Survey 20 min			
	English (Survey)				

\* Multiple test forms for test equating

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1. Overview of NAEA

## Achievement Levels

<b>Advanced</b>	<ul style="list-style-type: none"> <li>Superior performance</li> <li>(Above 80% reached to the desired performance that must be achieved in each content and grade )</li> </ul>
<b>Proficient</b>	<ul style="list-style-type: none"> <li>Solid academic performance</li> <li>(50 – 80% reached to the desired performance that must be achieved in each content and grade )</li> </ul>
<b>Basic</b>	<ul style="list-style-type: none"> <li>Partial mastery of required knowledge and skills</li> <li>(20 – 50% reached to the desired performance that must be achieved in each content and grade )</li> </ul>
<b>Below-basic</b>	

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1. Overview of NAEA

## Students Survey Questions

<b>Personal and Family Background</b>	<ul style="list-style-type: none"> <li>Gender</li> <li>Family living together</li> </ul>
<b>Extracurricular Activities</b>	<ul style="list-style-type: none"> <li>Time spent in extracurricular activities</li> </ul>
<b>Learning Method And Attitude</b>	<ul style="list-style-type: none"> <li>After-school study</li> <li>Attitudes in class</li> </ul>
<b>School Life</b>	<ul style="list-style-type: none"> <li>Scales on school life adjustment</li> </ul>
<b>Questions Related to Each Subject</b>	<ul style="list-style-type: none"> <li>Reasons to study each subject</li> <li>Learning materials</li> <li>Scales of attitude on learning each subject</li> </ul>

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1. Overview of NAEA

## Teachers Survey Questions

<b>Personal Background</b>	<ul style="list-style-type: none"> <li>Age</li> <li>Teaching experience</li> </ul>
<b>Teaching Activities</b>	<ul style="list-style-type: none"> <li>Teachers' workshop participation on a subject</li> <li>Weekly hours of spent in school work</li> </ul>
<b>Teaching Jobs</b>	<ul style="list-style-type: none"> <li>Scales on job satisfaction and self-efficacy</li> </ul>
<b>Questions Related to Each Subject</b>	<ul style="list-style-type: none"> <li>Teaching methods</li> <li>Assessment methods</li> <li>Focused areas in the class</li> </ul>

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1. Overview of NAEA

## School Survey Questions

<b>School Features</b>	<ul style="list-style-type: none"> <li>School location</li> <li>School size &amp; proportion of low-income families</li> </ul>
<b>School Facilities and Budget</b>	<ul style="list-style-type: none"> <li>School facilities</li> <li>Library facilities</li> <li>Computer-related environment</li> </ul>
<b>School-level Curriculum Management</b>	<ul style="list-style-type: none"> <li>Managing the differentiated curriculum</li> <li>Teacher's conference</li> </ul>
<b>School Atmosphere</b>	<ul style="list-style-type: none"> <li>Main decision-makers</li> <li>Students' behavior</li> </ul>

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## 2. 2010 NAEA RESULTS

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2. 2010 NAEA Results

## % Change of below-Basic (2010-2009)

Grade	2010			2009			Change		
	Korean	Math	English	Korean	Math	English	Korean	Math	English
6	1.2	1.2	2.1	2.3	1.3	1.8	-1.1	-0.1	0.3
9	3.2	6.1	3.9	4.6	10.9	5.0	-1.4	-4.8	-1.1
11	4.0	4.3	3.7	2.3	6.1	3.7	1.7	-1.8	0.0

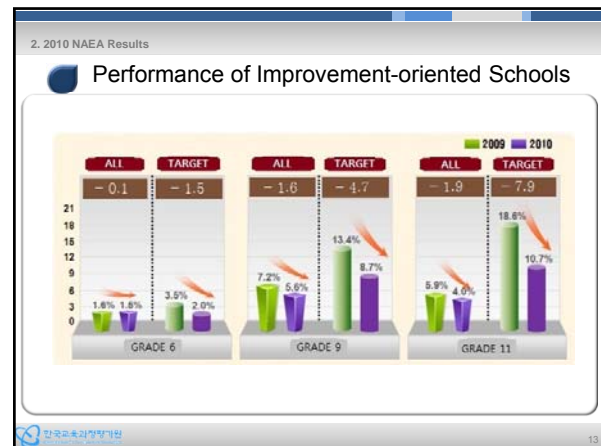
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2. 2010 NAEA Results

### Improvement-oriented Schools

- 1660 schools were selected as "improvement-oriented schools"
- Criteria for selecting improvement-oriented schools
  - Grade 6 : Schools above 5% of Below-basic
  - Grade 9 & 11 : Schools above 20% of Below-basic
- Out of 1,660 target schools, 1,250 schools (92%) passed the lower limit based on 2010 NAEA results

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2. 2010 NAEA Results

### Methods to Help Low-Performing Students

Type	Grade 6		Grade 9		Grade 11	
	Others	Target Schools	Others	Target Schools	Others	Target Schools
After-School Programs	89.3	97.9	92.1	96.3	79.1	95.1
Supplementary Classes in the Vacation	74.3	94.0	60.3	75.5	59.7	71.0
Special Needs Teachers	51.4	70.8	42.3	46.0	39.8	56.6
Outside Human Resources	54.3	70.6	46.4	54.4	33.4	42.4
Specialized Learning Materials	83.7	90.0	78.0	81.2	69.0	83.4

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### 3. IMPLICATION

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3. Implication

### Implication

- The overall progress of student achievement can be interpreted as the effect of increase in the responsibility of school and the motivation of students triggered **by the change of NAEA from sample-based test to census test**
- The analysis of NAEA results can contribute to **'data-based policy making'**
- The government's school supporting policies, namely **"improvement-oriented schools"** turned out to be quite successful

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3. Implication

### Implication

- The operations of **after-school programs, supplementary classes in the vacation, and use of specialized learning materials** were found out to be effective
- Next step is a qualitative study to investigate the key factors influencing the effectiveness of "improvement-oriented schools"

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