**Supporting information**

**S1 Table. The subdivisions of nationally administered standardized tests in the language arts and mathematics.**

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| --- | --- | --- |
|  | Language arts | Mathematics |
| 4th grade(age 9) | * spelling
* reading comprehension
* writing
* grammar
 | * calculations and operations
* geometry and measurement
* numbers and comprehension
 |
| 7th grade(age 12) | * spelling
* reading comprehension
* writing
* grammar/word usage
 | * calculations and operations
* geometry and measurement
* statistics
 |
| 10th grade(age 15) | * spelling (until 2009)
* reading comprehension/literature
* grammar/word usage
* writing
 | * calculations and operations
* ratios and percentages (statistics)
* geometry and measurement
* algebra and patterns
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