

The Relationship between *i-Ready Diagnostic* and the 2023 Iowa Statewide Assessment of Student Progress (ISASP)

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Research Overview

i-Ready Diagnostic and the 2023 ISASP are highly correlated—with an average spring correlation of .84 for both English Language Arts (ELA) and Mathematics.

About the Students Included in the Study

Curriculum Associates conducted a large-scale study on the relationship between the *i-Ready Diagnostic* and the 2023 ISASP for Grades 3–8 in ELA and Mathematics, the primary grades in which *i-Ready* is used in Iowa for which there is a state summative assessment in place. Students came from a total of 11 school districts, all public and none of which were charter agencies (see Table 1). The school districts were selected for participation in the study specifically to be representative of the state in terms of factors such as urbanicity, race/ethnicity, and socioeconomic status (using National School Lunch Program as a proxy). See the appendix for more information on the sample.

Table 1. Demographic Information for Iowa Districts in Study

District	Schools Participating	Location	Total Enrollment	% National School Lunch Program	% English Language Learners ¹
1	27	City (25), Suburb (2)	9,500–9,999	60%	5%
2	16	City (15), Rural (1)	6,500–6,999	40%	5%
3	13	City (13)	5,000–5,499	70%	20%
4	6	City (6)	2,500–2,999	35%	5%
5	6	Town (5), Rural (1)	2,500–2,999	50%	20%
6	6	Town (6)	2,000–2,499	60%	<5%
7	2	City (2)	1,500–1,999	35%	5%
8	4	Rural (4)	900–999	30%	<5%
9	2	Rural (2)	800–899	40%	*
10	1	Rural (1)	200–299	25%	*
11	1	Rural (1)	200–299	35%	*
Average of Participating Districts²				52%	9%
Average across All Districts in the State²				40%	7%

Note: Demographic data are available at the school and district level and may not precisely describe the study sample. District-specific statistics are provided as ranges or rounded to the nearest five percent in order to ensure the anonymity of participating districts.

¹Data on English language learners is only available at the district level. Data from U.S. Department of Education, National Center for Education Statistics, ED Facts file 141, Data Group 678, 2020–2021, extracted May 10, 2023.

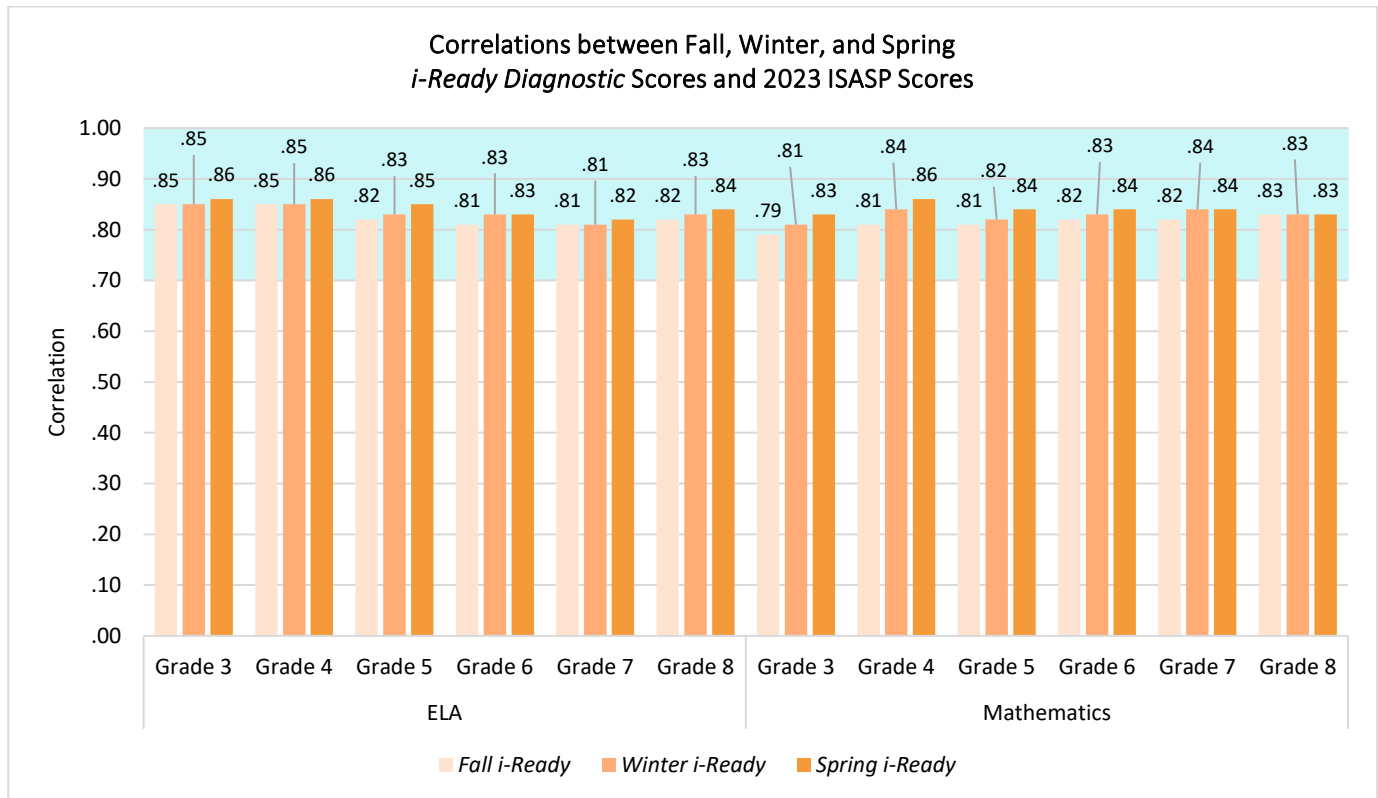
²Weighted averages.

Data from U.S. Department of Education, National Center for Education Statistics, Common Core of Data (CCD), “Local Education Agency (School District) Universe Survey”, 2021–2022 v.1a. (obtained from <https://nces.ed.gov/ccd/pubagency.asp>), represent 2021–2022 data, which was the most recent full dataset available from NCES at the time of the study. An asterisk (*) signifies that NCES has recorded the data as missing, not available, or not reported data items.

Correlation Results

Across all grades and in both subjects, results provide evidence for the strong correlation between *i-Ready Diagnostic* and the ISASP (see Figure 1). Specifically, spring correlations for ELA ranged from .82 for Grade 7 to .86 for Grades 3 and 4, and spring correlations for Mathematics ranged from .83 for Grades 3 and 8 to .86 for Grade 4. These correlations, **all surpassing the .70 standard generally considered to be strong in education research**, provide evidence of a substantial relationship between *i-Ready Diagnostic* and the ISASP.

Figure 1



Why Correlations Matter

Correlations are one of the most commonly used and widely accepted forms of validity evidence. Correlations demonstrate that when students score high on one assessment, they also tend to score high on the other, and similarly, when students score low on one assessment, they also tend to score low on the other. A high correlation between two assessments provides evidence that the two assessments are measuring related constructs.

Appendix

The sample included more than 20,000 students, with between 1,993 and 2,221 students per grade for ELA for the spring *i-Ready* assessment and between 2,408 and 3,161 students per grade for Mathematics for the spring *i-Ready* assessment (see Table 2). These students took both the *i-Ready Diagnostic* and the ISASP during the 2022–2023 school year.

Table 2. Sample Sizes for Correlations

	ELA			Mathematics		
	Fall	Winter	Spring	Fall	Winter	Spring
Grade 3	2,181	2,218	2,221	3,102	3,149	3,161
Grade 4	2,093	2,114	2,121	3,050	3,091	3,089
Grade 5	2,036	2,078	2,043	2,986	3,028	3,032
Grade 6	2,001	2,029	1,993	2,917	2,999	2,972
Grade 7	2,047	2,070	2,042	2,416	2,441	2,408
Grade 8	2,062	2,098	2,034	2,402	2,501	2,420

Table 3 shows the percentage of students in each race/ethnicity group from the study samples. In both the ELA and Mathematics samples, we have strong representation from students of different racial/ethnic groups.

Table 3. Race/Ethnicity Information for Sample of Iowa Students in this Study

	American Indian or Alaska Native	Asian	Black	Hawaiian or Pacific Islander	Hispanic	Two or More Races	White
ELA	.2%	1.5%	13.1%	1.5%	7.4%	8.0%	68.3%
Mathematics	1.2%	1.6%	11.8%	2.5%	14.3%	5.4%	63.3%