i-Ready®

i-Ready Diagnostic and North Carolina End-of-Grade (NC EOG) Tests Linking Study Overview

Curriculum Associates, in partnership with the Educational Research Institute of America (ERIA), conducted a large-scale study on the relationship between *i-Ready Diagnostic* and the 2016 NC EOG Tests. The research found a high correlation between *i-Ready Diagnostic* and the NC EOG. *i-Ready* was also shown to accurately predict end-of-year proficiency rates.
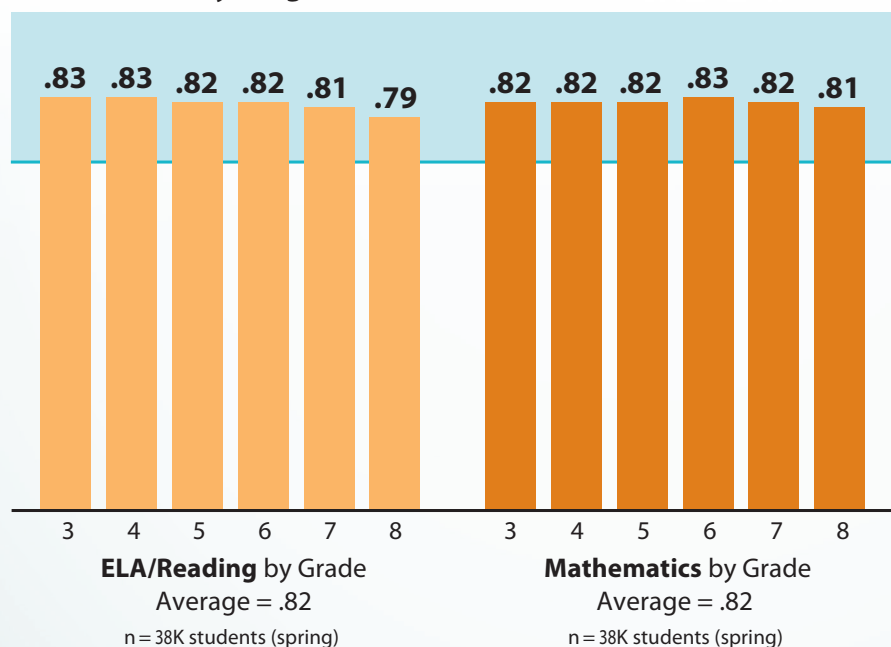
About the Research

ERIA collected data from approximately 60,000 students across 12 districts in North Carolina. The research includes the following analyses:

- Correlations between NC EOG and *i-Ready Diagnostic*
- Analysis of *i-Ready Diagnostic* placements and student proficiency, as measured by NC EOG
- Creation of a proficiency prediction model using 2015–2016 data, allowing educators to use *i-Ready* data to predict end-of-year proficiency on their state assessment

Correlation Between *i-Ready Diagnostic* and NC EOG

The research study found a strong correlation between *i-Ready Diagnostic* scores and scores on the NC EOG assessments administered in 2016.

Correlations Between the Spring *i-Ready Diagnostic* and the 2016 NC EOG Tests

ELA/Reading by Grade — Grade 3: .83, Grade 4: .83, Grade 5: .82, Grade 6: .82, Grade 7: .81, Grade 8: .79
ELA/Reading by Grade
Average = .82
n = 38K students (spring)

Mathematics by Grade — Grade 3: .82, Grade 4: .82, Grade 5: .82, Grade 6: .83, Grade 7: .82, Grade 8: .81
Mathematics by Grade
Average = .82
n = 38K students (spring)

.70

Assessment correlations above .70 are considered strong by the Center on RTI. *i-Ready Diagnostic* exceeded this benchmark in both subjects and across all grades.

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 similar constructs.
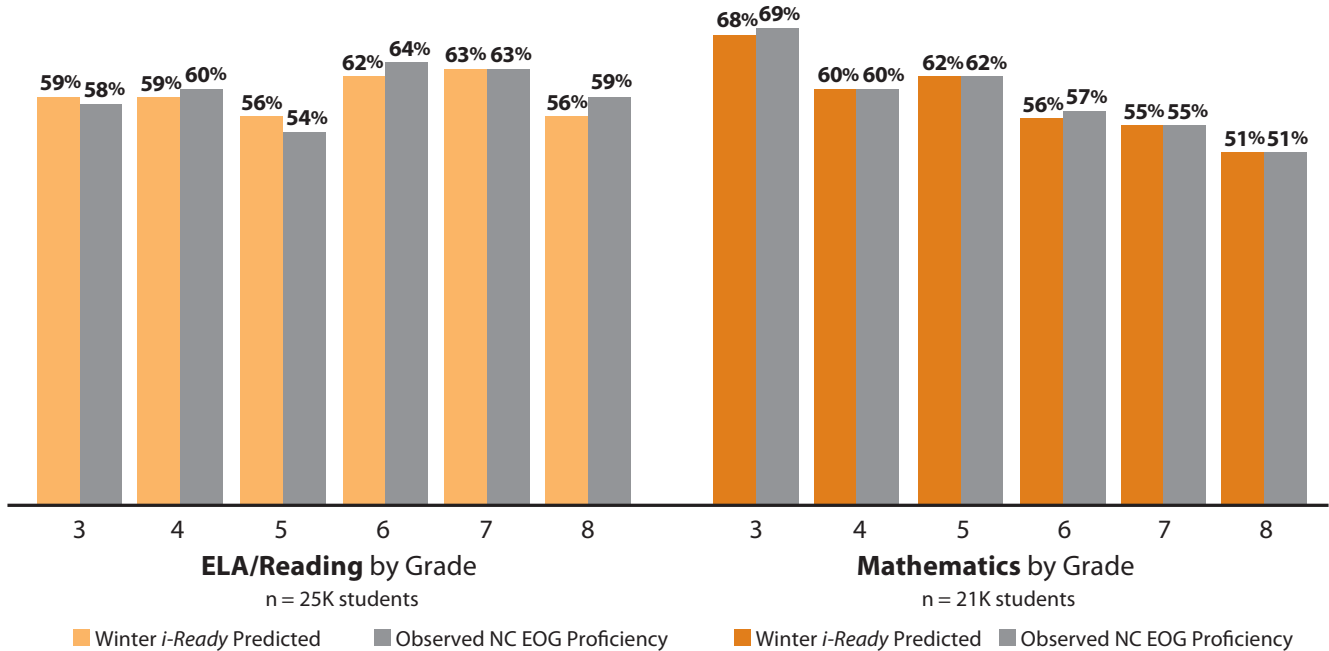
Predicted Proficiency Rates

Based on strong validity evidence and the needs of educators using *i-Ready*, the Curriculum Associates team developed a prediction model for NC EOG assessment results using logistic regression analysis. **The model proved to be highly accurate in forecasting aggregate proficiency rates across grades and subjects.**

Comparison of Predicted and Observed Proficiency Rates for 2016 NC EOG Tests

i-Ready's predicted proficiency rates were remarkably consistent with observed (actual) NC EOG Tests proficiency rates—**often within 1% of observed proficiency for the sample**.

ELA/Reading by Grade
n = 25K students

Grade	3	4	5	6	7	8
Winter *i-Ready* Predicted	59%	59%	56%	62%	63%	56%
Observed NC EOG Proficiency	58%	60%	54%	64%	63%	59%

■ Winter *i-Ready* Predicted   ■ Observed NC EOG Proficiency

Mathematics by Grade
n = 21K students

Grade	3	4	5	6	7	8
Winter *i-Ready* Predicted	68%	60%	62%	56%	55%	51%
Observed NC EOG Proficiency	69%	60%	62%	57%	55%	51%

■ Winter *i-Ready* Predicted   ■ Observed NC EOG Proficiency

Note: The charts above use assessment scores from more than 25,000 winter *i-Ready Reading Diagnostics* and more than 21,000 winter *i-Ready Mathematics Diagnostics* and students' corresponding NC EOG scores; similar accuracy was observed across fall, winter, and spring testing scores.

Summary of Research Findings

Findings from the research demonstrate that:

- *i-Ready Diagnostic* scores are strongly correlated with the scores on the NC EOG administered to students in 2016.

- *i-Ready Diagnostic* scores can be used to accurately predict and classify students' proficiency on the 2016 NC EOG Tests.

Want a copy of the full study?
Contact your local Curriculum Associates representative or call Customer Service at (800) 225-0248.

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