

# Miami-Dade Sees Unparalleled Assessment Results with Carnegie Learning

Miami-Dade County Public Schools has partnered with Carnegie Learning for more than 15 years, resulting in significant student achievement in mathematics. The district recently released assessment results that speak to the power of this partnership.



**Our students continue to soar academically as evidenced by the results of the Florida Standards Assessment,' said Schools Superintendent Alberto M. Carvalho.**

**On the FSA Mathematics assessment, M-DCPS students in all Grades 3 through 8 outpaced or matched the state in terms of gains from 2017 to 2018.**

**M-DCPS also outscored and outpaced other large districts in Mathematics, including Broward, Duval, Hillsborough, and Orange counties, and met the gains made by students in Palm Beach County.<sup>1</sup>**

In 2018, Miami-Dade County Public Schools was ranked an "A" district by the Florida Department of Education for the first time in the history of the Florida School Performance Grades. Higher percentages of Miami-Dade schools received "A" ratings in 2018 than statewide across all schools, and in all other large Florida districts.<sup>2</sup>

## Miami-Dade County Public Schools Demographics:

- **Grade Level:** PreK-12
- **Enrollment:** 354,172
- **Community:** Urban
- **Race:** 71% Hispanic, 21% Black, 7% White
- **Special Education (ESE):** 22%

## THE IPREP MATH PROGRAM

In 2013, Miami-Dade County Public Schools launched iPrep Math, an innovative program funded by a \$30M Race to the Top Grant from the U.S. Department of Education. The program involves 49 middle schools with approximately 240 students per school, with the following goals:

- Implement personalized student learning
- Improve student achievement and educator effectiveness
- Close achievement gaps
- Prepare every student to succeed in college and career

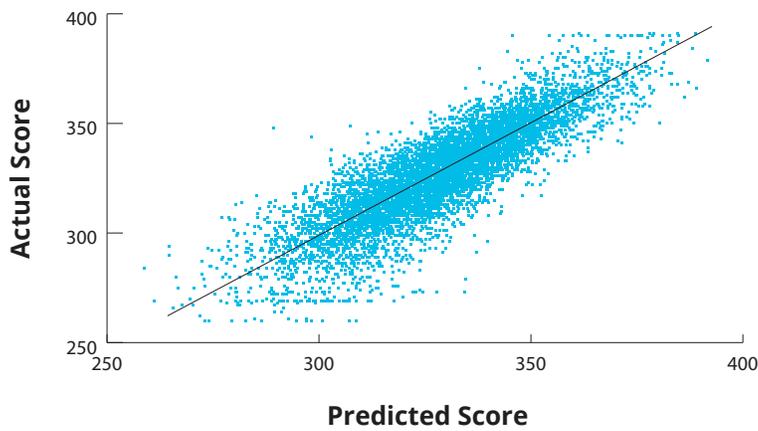
The district created innovative learning environments in these schools, including large open spaces, flexible furniture, and cutting-edge technology. Students are given group instruction as well as time to work together in small groups and present their work to each other, even writing on the walls!

iPrep Math students use the Carnegie Learning Middle School Math Solution to achieve the above goals in this innovative environment. "The Carnegie Learning curriculum, both textbook and software, have been vetted by

<sup>1</sup> <http://news.dadeschools.net/cmnc/new/28700>

<sup>2</sup> <https://communitynewspapers.com/miami-beach/m-dcps-makes-history-becoming-an-a-rated-scshool-district/>

our team for alignment and rigor, and we have found it to be highly correlated to the tasks our students need to be proficient on as per our Florida Mathematics Standards,” says Dr. Ilia Molina, Executive Director, Middle School Redesign. “Multiple years of data shows that schools that use the adaptive software consistently and with high proficiency also show higher proficiency levels on the state assessments.”



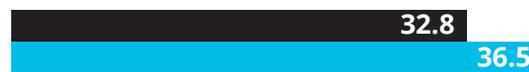
A recently published, peer-reviewed study<sup>3</sup> demonstrates high correlations between measures of consistent and highly proficient usage in the MATHia adaptive software (e.g., content completed, efficiency in mastering skills) and performance on the Florida Standards Assessment (FSA) for mathematics. Such performance measures contribute to the calculation of MATHia’s Adaptive Personalized Learning Score (APLSE). The graph below shows actual and predicted FSA scores for more than 11,000 students using MATHia. Each dot represents a student, and the fact that most dots are clustered around the trend line indicates that MATHia usage is able to accurately predict actual test scores.

Dr. Molina continues, “We have also worked with Carnegie Learning to provide in-depth professional development and job-embedded coaching support to 49 schools (approximately 137 teachers) per year. Teacher feedback is always very high, and comments usually include that it is one of the best professional development sessions they have ever attended.”

## A STRONG PARTNERSHIP

These results aren’t new. Evidence for increased student learning with Carnegie Learning solutions in Miami-Dade County Public Schools emerged early in this long-standing partnership. In 2002, the Reliability Group, an independent third party, conducted a research study involving 6,395 high school students. The study concluded that students using the Carnegie Learning curriculum scored significantly higher on the Florida Comprehensive Assessment Test (FCAT) than students using a different curriculum. The difference was particularly pronounced for Exceptional Education and Student Services students, including those with learning and behavioral difficulties, and for students with Limited English Proficiency.

### ALL STUDENTS



### ESE STUDENTS



### LIMITED ENGLISH STUDENTS



Percentage of students scoring 3 or higher on the FCAT

“We are thrilled by the results that Miami-Dade County Public Schools has seen, and look forward to continuing our partnership to help iPrep students experience deeper math learning and build critical 21<sup>st</sup> century skills for a successful future,” says Barry Malkin, CEO of Carnegie Learning.

<sup>3</sup> Fancsali, S.E., Zheng, G., Tan, Y., Ritter, S., Berman, S., Galyardt, A. (2018). Using embedded formative assessment to predict state summative test scores. In Proceedings of the 8th International Conference on Learning Analytics and Knowledge (LAK '18), pp. 161-170. New York: ACM. <https://dl.acm.org/citation.cfm?id=3170392>