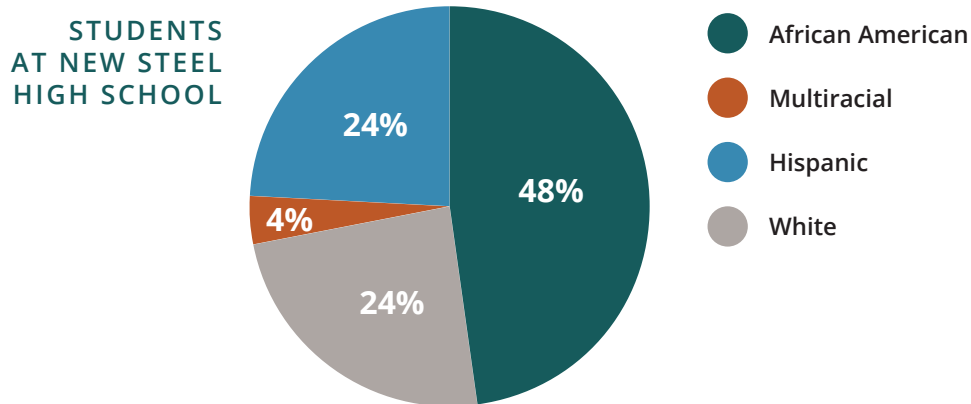# NEW STEEL HIGH SCHOOL

SETTING

New Steel High School is located in a large urban city in the Midwest with the mission to produce graduates who are confident learners and prepared for success in college or the 21st-century workplace. The student demographics are described in the chart below. 100% of students qualified for free or reduced lunch. The school uses project-based learning focusing on science, technology, engineering, arts and math (STEAM). Technology is available with laptop carts in each classroom.

PARTICIPANTS

10th grade students with some 9th grade accelerated students who were taught a full year of Educurious Biology.

STUDENTS AT NEW STEEL HIGH SCHOOL

- African American — 48%
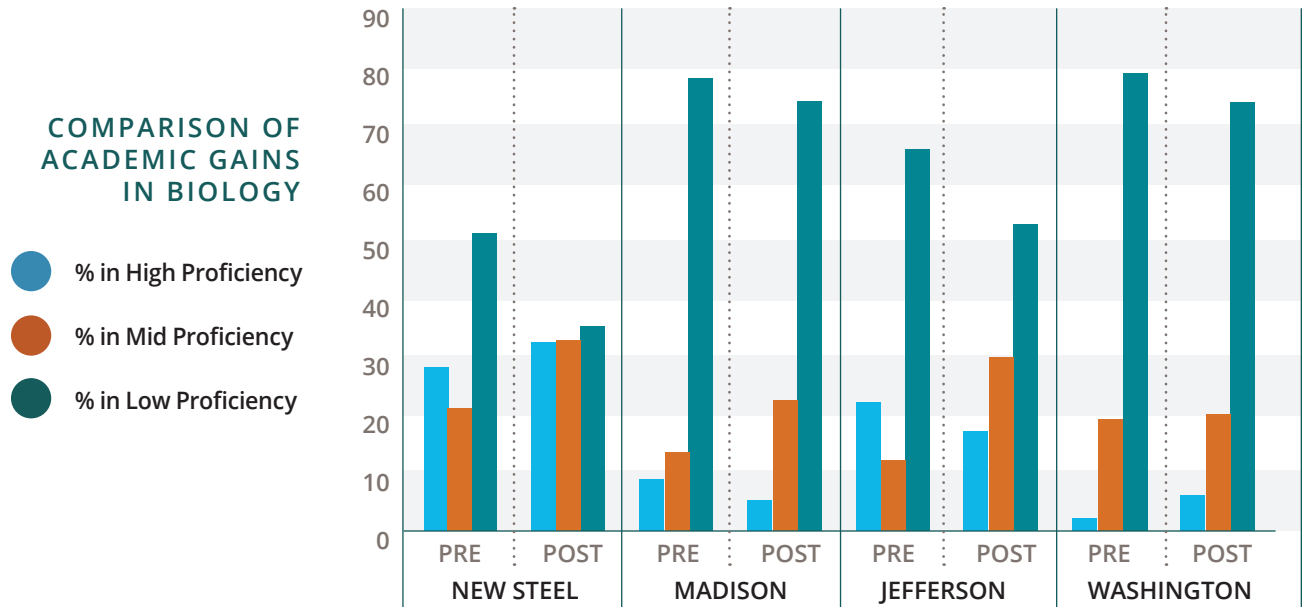- Multiracial — 4%
- Hispanic — 24%
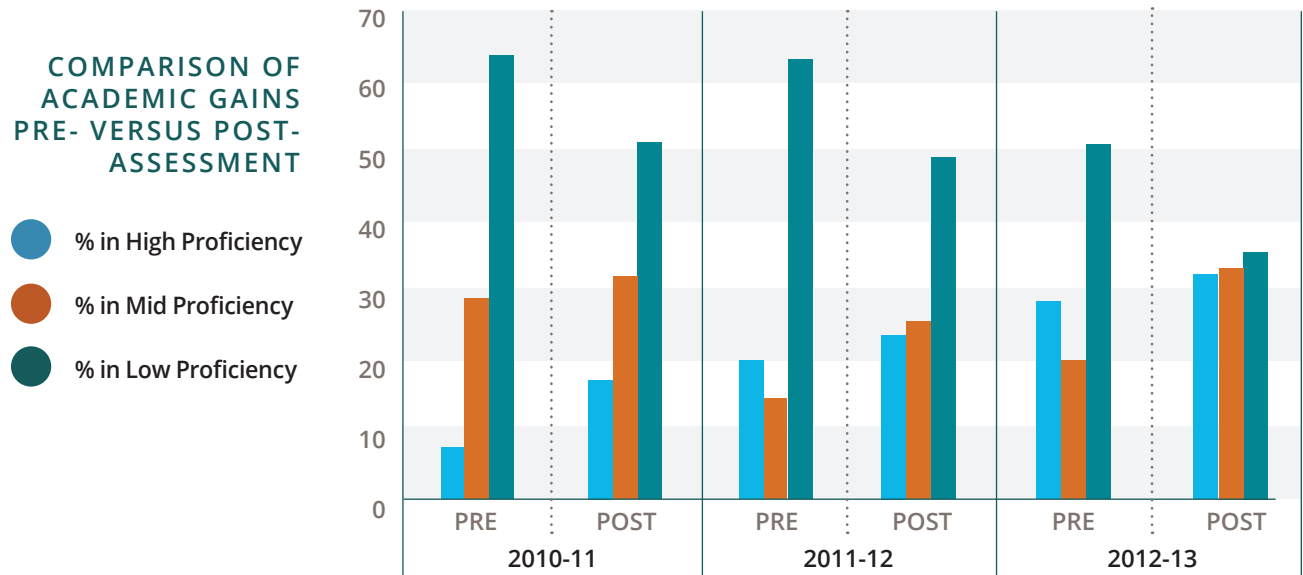- White — 24%

METHODS

School comparisons were made using Measures of Academic Progress (MAP) Science Assessment for the pre-assessment measure, and the Ohio Graduation Test (OGT) was used as the post. Comparisons were made with three other sites within the district that have similar populations.

RESULTS

Each school showed improvement over the course of the year. In the analysis of pre- and post-assessment data, New Steel had a 16% decrease of students in low proficiency, the largest of all the comparison schools. New Steel also had a 12% increase of students in high proficiency, whereas all but one of the comparison schools showed a decrease in high-proficiency numbers on the post assessment.

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COMPARISON OF ACADEMIC GAINS IN BIOLOGY

- **% in High Proficiency**
- **% in Mid Proficiency**
- **% in Low Proficiency**

	NEW STEEL		MADISON		JEFFERSON		WASHINGTON	
	PRE	POST	PRE	POST	PRE	POST	PRE	POST

A secondary analysis was conducted on patterns from low to high proficiency via pre and post assessment across years for the New Steel teacher, which provided greater visibility into the impact of the Educurious approach.

COMPARISON OF ACADEMIC GAINS PRE- VERSUS POST- ASSESSMENT

- **% in High Proficiency**
- **% in Mid Proficiency**
- **% in Low Proficiency**

	2010-11		2011-12		2012-13	
	PRE	POST	PRE	POST	PRE	POST

This secondary analysis showed a trend of students gaining more proficiency across years on the pre and post assessments. The 2012-13 school year in which Educurious was taught showed the greatest level of high and medium proficiency and the least percentage of low-proficiency levels of all previous years.

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