

engage2learn RESEARCH SUMMARY



EXPLORATION OF MATH & SCIENCE GROWTH GRADES 6-8, 2021-2022 SCHOOL YEAR

PROGRAM DESCRIPTION

engage2learn provides an in-person and virtual coaching system that builds capacity and engagement in public schools. Learning Experience Design (LXD) Research, a third-party independent evaluator, was hired to analyze data collected during the 2021-2022 school year. The goal was to measure how engage2learn contributed to the faculty's shared and growing use of instructional best practices, and if those best practices impacted student outcomes.

SAMPLE DESCRIPTION

LOCATION: Large Urban District in Texas

GRADES: 6-8

SIZE: 110 educators across 10 schools, teaching 1,353 students

DEMOGRAPHICS: 83% Hispanic, 13% Black
88% Economically Disadvantaged

ASSESSMENT

NWEA MAP® Growth™ Math & Science
STAAR Math & Science

MAKING EDUCATOR PROGRESS VISIBLE

Engage2learn (e2L) partnered with the district to provide coaching for teachers, instructional lead teachers, assistant principals, instructional coaches, and office staff. Teachers were coached on the Best Practices and worked with their e2L Coach to design their own path toward standards mastery within the district-selected competencies. Teachers earn badges as they demonstrate evidence of practice.

Strand Badges represent meeting or exceeding expectations in three related growth indicators (GIs) within a competency. **Leveled Standard Badges** indicate at least three GIs across a set of related Best Practice competencies.

Example Standard Badges



Standards Alignment



Differentiation & Scaffolding



Assessment & Feedback



Small Group Instruction

EDUCATOR DESCRIPTION

Five schools had cohorts of educators who used e2L and five schools did not use e2L.



22 middle school math and science teachers in this study earned e2L badges.



Those 22 e2L-trained teachers served 669 students.



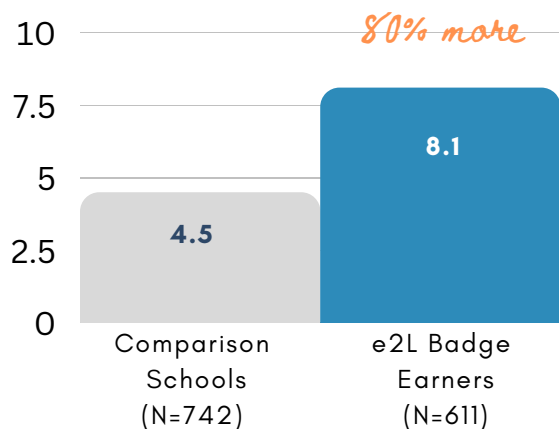
Teachers have been gaining new badges and building mastery consistently since 2020.

EXPLORATION OF MATH & SCIENCE GROWTH GRADES 6-8, 2021-2022 SCHOOL YEAR

NWEA MAP reports whether students reached their projected growth targets. The following results provide evidence that educators who earn badges with **engage2Learn have significant and higher impacts on student math and science growth than educators in comparison schools who did not get coaching**. Statistical explanations highlight differences between e2L and Comparison schools.

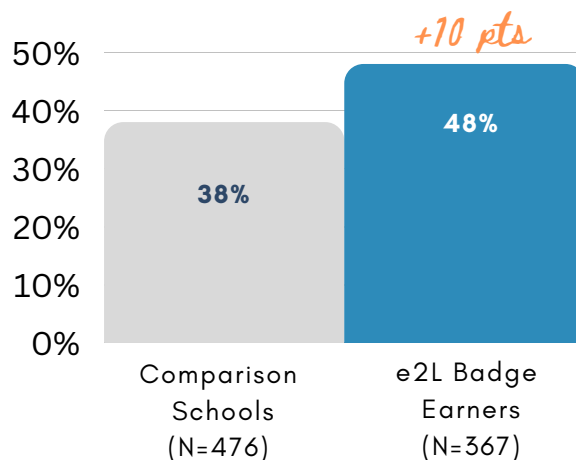
KEY FINDINGS IN STUDENT MATH GROWTH

Math: Average Overall Math Score Gains from Fall 2021 to Spring 2022



Stats Citation
 $t(1,351) = 7.1, p < .001$
 Cohen's d effect size = 0.38

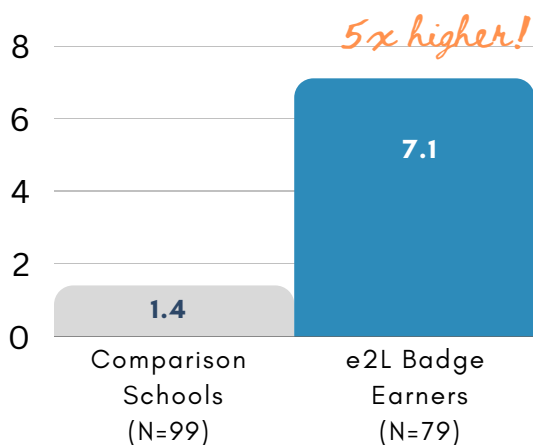
Math: Percent of Students Who Met Projected Math Growth Targets in Spring 2022



Stats Citation
 $t(844) = 2.9, p = .003$
 Cohen's d effect size = 0.20

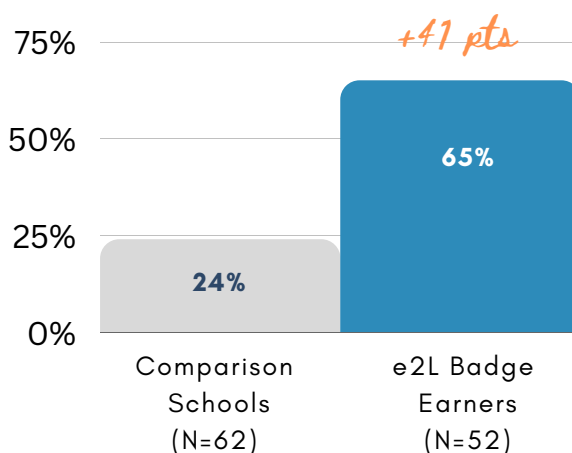
KEY FINDINGS IN STUDENT SCIENCE GROWTH

Science: Average Overall Science Score Gains from Fall 2021 to Spring 2022



Stats Citation
 $t(176) = 3.6, p < .001$
 Cohen's d effect size = 0.54

Science: Percent of Students Who Met Projected Science Growth Targets in Spring 2022



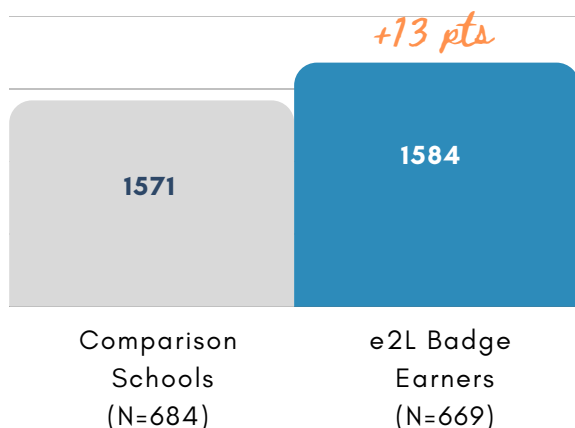
Stats Citation
 $t(111) = 4.7, p < .001$
 Cohen's d effect size = 0.89

EXPLORATION OF MATH & SCIENCE GROWTH GRADES 6-8, 2021-2022 SCHOOL YEAR

Math and science are indexed by the **State of Texas Assessments of Academic Readiness (STAAR®)** at the end of each school year. The following results provide evidence that educators who earn badges with **engage2Learn have significant and higher impacts on student math and science scores than educators in comparison schools who did not get coaching**. Statistical explanations highlight differences between e2L and Comparison schools.

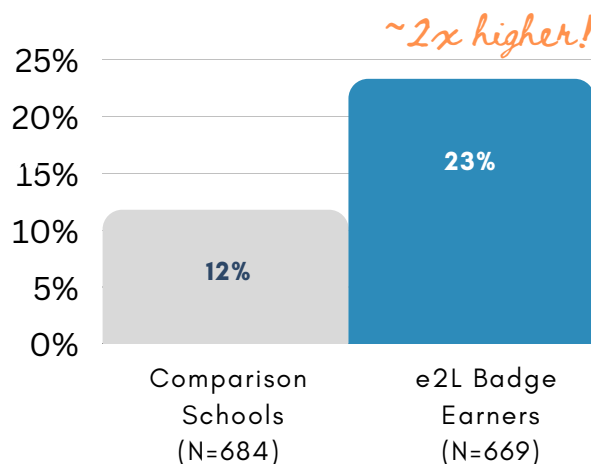
KEY FINDINGS IN STUDENT MATH GROWTH

Math: Average STAAR Math Scale Scores Spring 2022



Stats Citation
 $t(1351) = 2.1, p = .03$
 Cohen's d effect size = 0.12

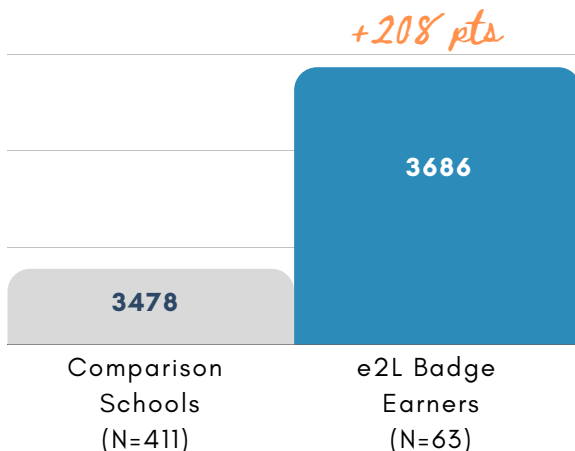
Math: Percent of Students At/Above Grade Level in Spring 2022



Stats Citation
 $t(1351) = 5.6, p < .001$
 Cohen's d effect size = 0.31

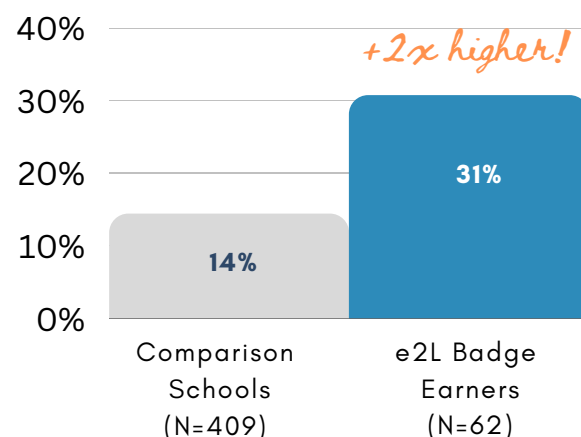
KEY FINDINGS IN STUDENT SCIENCE GROWTH

Science: Average Grade 8 STAAR Science Scale Scores Spring of 2022



Stats Citation
 $t(472) = 3.0, p = .003$
 Cohen's d effect size = 0.40

Science: Percent of Grade 8 Students At/Above Grade Level in Spring 2022



Stats Citation
 $t(469) = 3.2, p < .001$
 Cohen's d effect size = 0.44