Classworks®

Linking Study: Predicting Performance on Texas STAAR Reading and Math Assessments using Classworks Universal Screeners

August 2021

About This Whitepaper

Classworks conducted a study to determine if the Classworks Universal Screener assessments can predict achievement on end-of-year Texas STAAR assessments. Data was collected from over 17,000 students across 20 districts throughout the 2020-2021 school year. Results from the linking analysis revealed that Classworks Universal Screeners are accurate predictors of the STAAR assessments.

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Introduction

Understanding where students are with their learning and how they may perform helps you make informed decisions about students' interventions. Assessments that identify students at-risk or in need of interventions better prepare you to support those students and give them the best opportunity to close gaps.

The objective of this linking study is to reveal whether Classworks Universal Screener Reading and Mathematics assessments help predict performance on the Texas STAAR End-of-Grade assessments in reading and mathematics in grades 3 through 8.
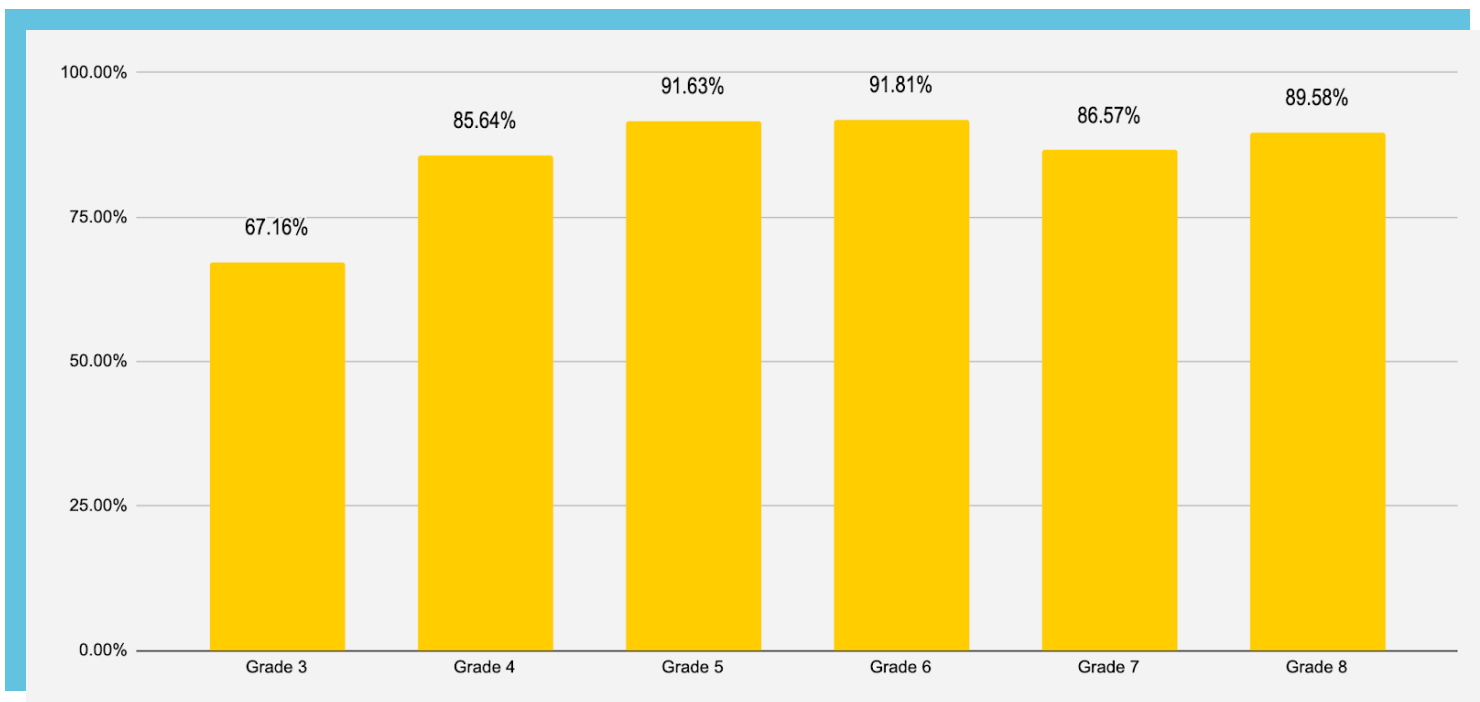
Main Findings

Results from the linking analysis revealed that Classworks Universal Screeners are accurate predictors of the STAAR assessments, meaning as a Texas educator you can use Universal Screener scores to:

1. Identify students likely to miss reading and math yearly progress goals with enough time to make meaningful adjustments to interventions well before the year-end test.
2. Predict the percent of students who will fall into the Proficient (Meets and Masters learners) or Non-Proficient (Did Not Meet and Approaches learners) categories on the Texas STAAR to help district and building administrators plan resources and support accordingly.
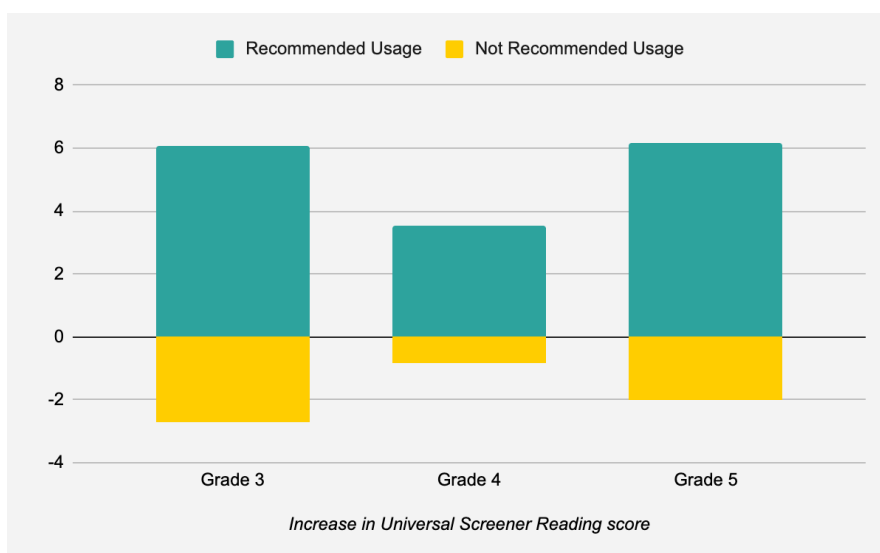
Reading

Predictive Accuracy of Classworks Universal Screener and Texas STAAR
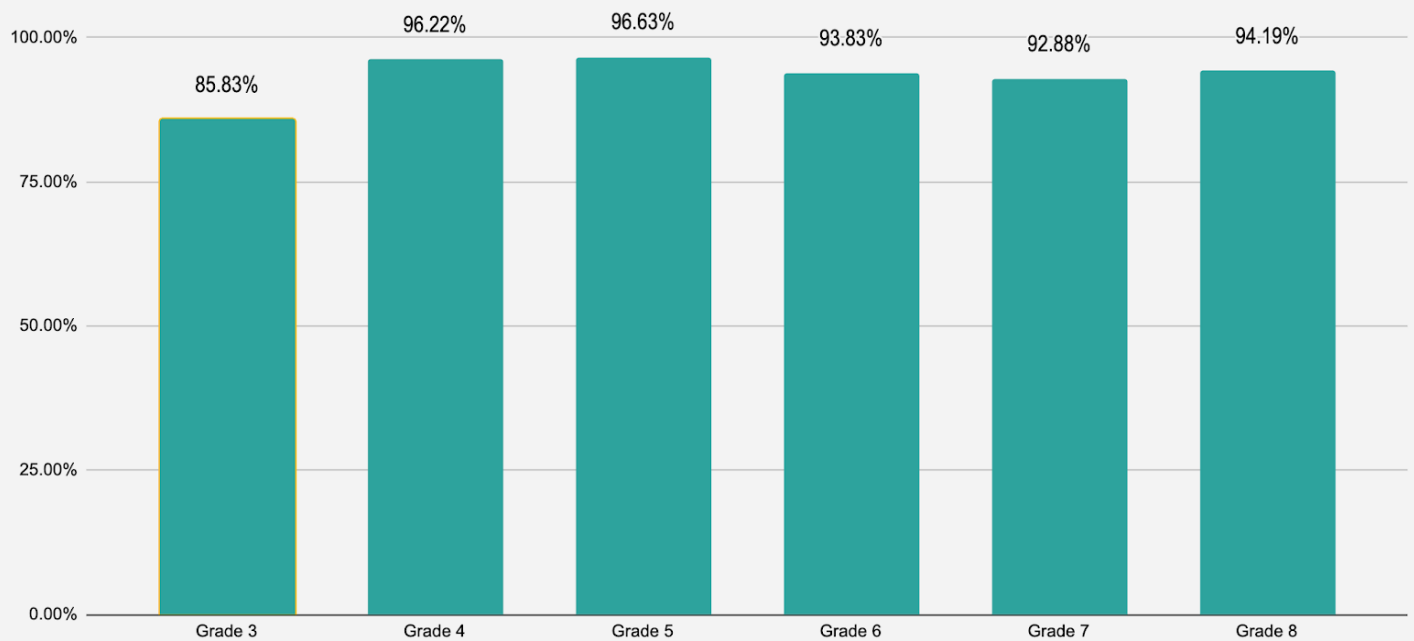
The objective of our model was to measure how accurately the Classworks Universal Screener assessment scores predicted whether students were classified as Proficient or Non-Proficient on the Texas STAAR in the subject of reading. Findings show that the Classworks Universal Screener reading assessments are accurate predictors of performance on Texas STAAR reading assessments. On average, students were correctly classified 85.40% of the time.

Impact of Classworks on Universal Screener Growth

When looking at the results of Universal Screener Reading assessments from fall 2020 to winter 2021, analysis shows students in grades 3-5 who followed Classworks recommended usage achieved substantially more growth when compared to students who did not. Across all grade levels analyzed, Classworks users experienced 5.05% more growth in reading than their peers.

Increase in Universal Screener Reading score

Chart showing predictive accuracy percentages by grade:
- Grade 3: 85.83%
- Grade 4: 96.22%
- Grade 5: 96.63%
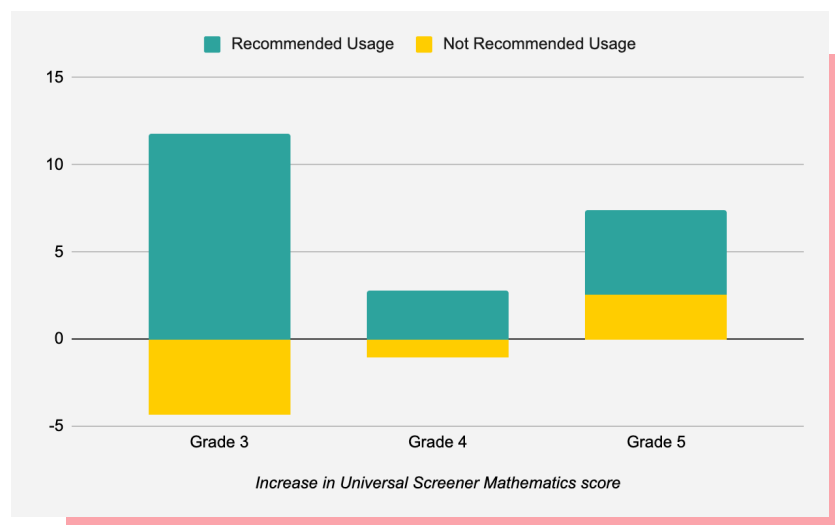- Grade 6: 93.83%
- Grade 7: 92.88%
- Grade 8: 94.19%

Mathematics

Predictive Accuracy of Universal Screener and Texas STAAR

The objective of our model was to measure how accurately the Classworks Universal Screener assessment scores predicted whether students were classified as Proficient or Non-Proficient on the Texas STAAR in the subject of mathematics. Findings indicate that the Classworks Universal Screener math assessments are accurate predictors of Texas STAAR math assessments. On average, students were correctly classified 93.26% of the time.

Impact of Classworks on Universal Screener Growth

When looking at the results of Universal Screener Mathematics assessments from fall 2020 to winter 2021, analysis shows students in grades 3-5 who followed Classworks recommended usage achieved substantially more growth when compared to students who did not. Across all analyzed grade levels, users receiving Classworks at recommended usage experience 6.03% more growth in mathematics than their peers.

Increase in Universal Screener Mathematics score

Legend: Recommended Usage (teal), Not Recommended Usage (yellow), by Grade 3, Grade 4, Grade 5

Implications

The findings show there is a relationship between Classworks usage and growth reflected on the Classworks Universal Screener. In addition, There is a high predictive accuracy between the Classworks Universal Screener assessments and the Texas STAAR assessments in Reading and Mathematics. Therefore, students using Classworks may experience more growth on their Universal Screener assessments and, in turn, their End-of-Grade Texas STAAR assessments.

About Classworks

Since 2003, millions of students have used Classworks to close learning gaps, keep pace, and grow! Our mission is to deliver the most compelling individualized learning experience that helps teachers create an equitable learning environment for students of all abilities and ethnic and social backgrounds.

POWERFUL INSTRUCTION. PERFECT TIMING.

For more information:
Contact Classworks at hello@classworks.com
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