



# Linking Study: Predicting Performance on Ohio OST Reading and Math Assessments using Classworks Universal Screeners



December 2022

## About This Whitepaper

Classworks conducted a study to determine if the Classworks Universal Screener assessments can predict achievement on end-of-year Ohio OST assessments. Data was collected from over 9,000 students across 23 districts throughout the 2021-2022 school year.



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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 Ohio OST End-of-Grade assessments in reading and mathematics in grades 3 through 8.

## Main Findings

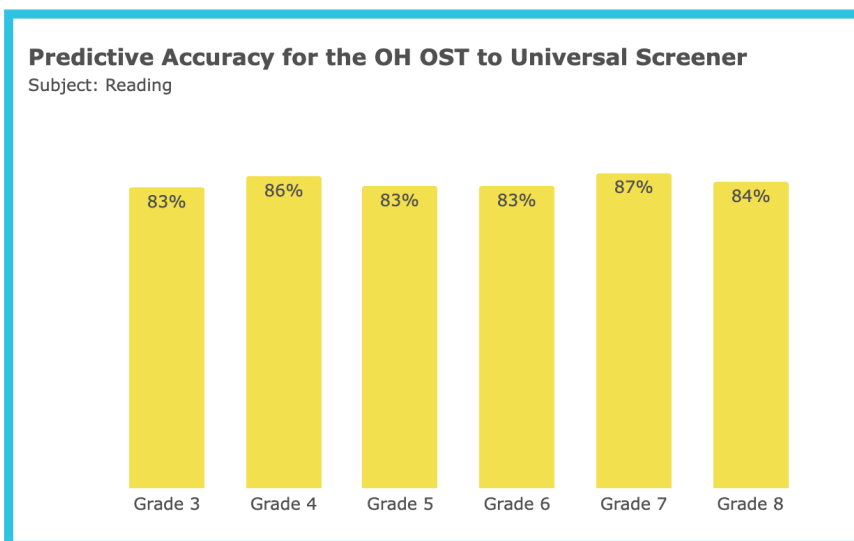
Results from the linking analysis revealed that Classworks Universal Screeners are accurate predictors of the Ohio OST assessments, meaning as an Ohio educator you can use Universal Screener scores to:

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 (Proficient, Accelerated, and Advanced learners) or Non-proficient (Limited and Basic learners) categories on the Ohio OST to help district and building administrators plan resources and support accordingly.

## Reading

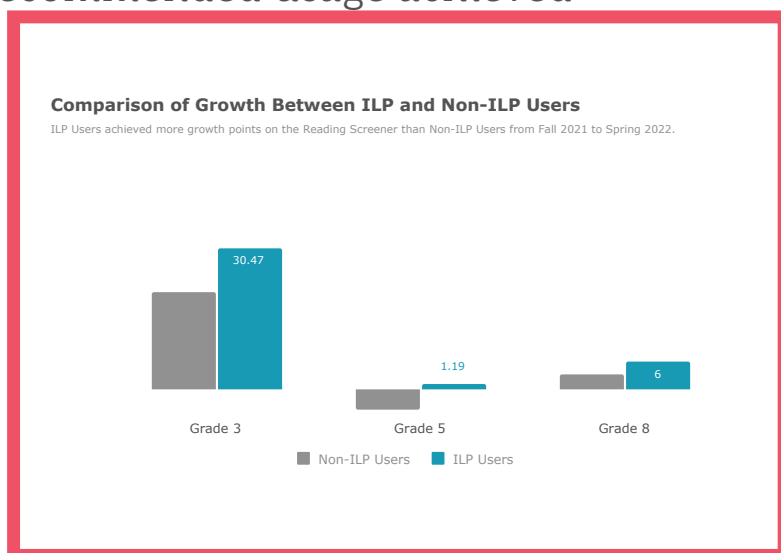
### Predictive Accuracy of Universal Screener and Ohio OST

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 Ohio OST assessment in the subject of reading. Findings show that the Classworks Universal Screener reading assessments are accurate predictors of performance on Ohio OST reading assessments. On average, students were correctly classified 84% of the time.



### Impact of Classworks on Universal Screener Growth

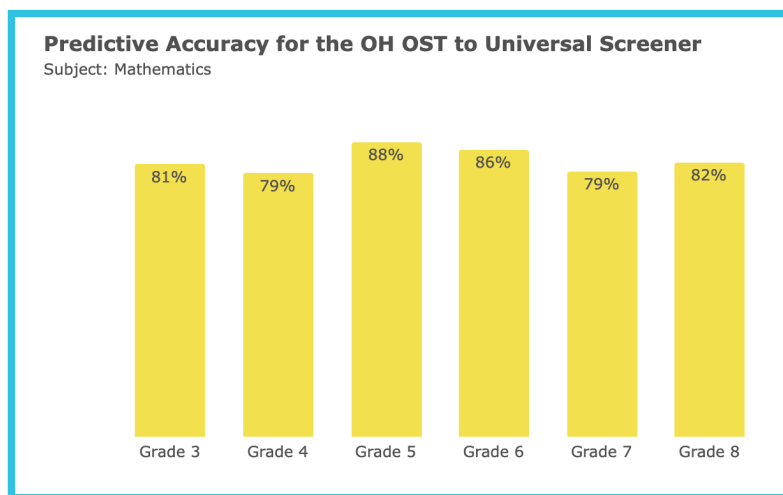
When looking at the results of Universal Screener Reading assessments from fall 2021 to spring 2022, analysis shows students in benchmark grades who followed Classworks recommended usage achieved substantially more growth when compared to students who had no usage. Across these benchmark grades analyzed, Classworks users experienced an average of 5.93 growth points more in reading than their peers.



# Mathematics

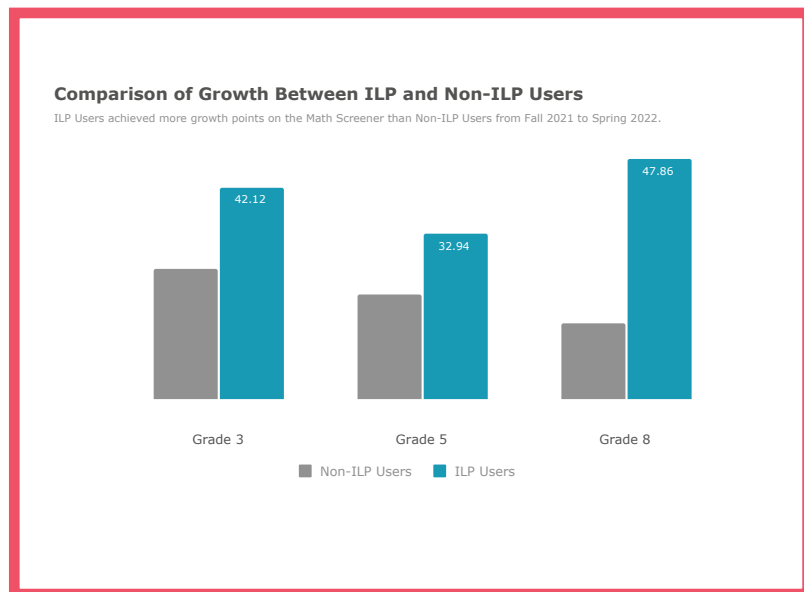
## Predictive Accuracy of Universal Screener and Ohio OST

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 Ohio OST assessment in the subject of mathematics. Findings indicate that the Classworks Universal Screener math assessments are accurate predictors of Ohio OST math assessments. On average, students were correctly classified 82% of the time.



## Impact of Classworks Instruction on Universal Screener Growth

When looking at the results of Universal Screener Mathematics assessments from fall 2021 to spring 2022, analysis shows students in benchmark grades who followed Classworks recommended usage achieved substantially more growth when compared to students who had no usage. Across these benchmark grades analyzed, Classworks users experienced an average of 20.39 more growth points in math than their peers.



## Conclusions

The findings show there is a relationship between Classworks usage and growth reflected on the Classworks Universal Screener. Recommended usage includes an average unit score of 75% or higher, 10 or more units completed, and at least 15 minutes a week over 30 instructional weeks in both reading and math.

In addition, there is a high predictive accuracy between the Classworks Universal Screener assessments and the Ohio OST assessments in Reading and Mathematics. Therefore, students using Classworks may experience more growth on their Universal Screener assessments and, in turn, on their end of grade Ohio OST 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](mailto:hello@classworks.com),  
call 770-325-5555, or visit [www.classworks.com](http://www.classworks.com).