

# Newsela ELA for 6<sup>th</sup>–8<sup>th</sup> Grade Students in Washington

## ESSA Level II Study

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## EXECUTIVE SUMMARY

Newsela contracted with LearnPlatform by Instructure (LearnPlatform), a third-party edtech research company, to examine the relationship between *Newsela ELA* usage and outcomes for students. LearnPlatform designed the study to satisfy Level II requirements (Moderate Evidence) according to the Every Student Succeeds Act (ESSA) and the *Meets WWC Standards With Reservations* according to the What Works Clearinghouse Version 5.0 Procedures and Standards Handbook (What Works Clearinghouse, 2022).

### Study Sample and Measures

The study included 1,330 6<sup>th</sup>–8<sup>th</sup> grade students (655 students who consistently used *Newsela ELA* (i.e., twice a week on average) and 655 students who did not use it across 27 elementary and middle schools in a large, suburban school district in Washington. Approximately half of the sample represented students of color, with almost one-third of all students receiving free/reduced-price lunch. The study used data from the 2021–22 and 2022–23 school years to provide insights into *Newsela ELA* implementation and its impact on student outcomes in English language arts. Specifically, the Newsela team provided LearnPlatform with 2022–23 usage data on *Newsela ELA* and the school district provided researchers with 2021–22 and 2022–23 i-Ready Reading Diagnostic scores and student demographic data.

### Main Research Findings

Researchers used descriptive statistics to describe participant characteristics and support analyses of implementation. LearnPlatform also conducted regression analyses to examine how consistent usage of *Newsela ELA* relates to student achievement on the i-Ready Reading Diagnostic as well as the magnitude of the difference between the performance of treatment and comparison students on the i-Ready Reading Diagnostic. In addition, researchers calculated standardized effect sizes to determine the strength of the relationship between *Newsela ELA* and student outcomes. Researchers also presented findings using percentile points to aid in interpretation of the effect size.

#### Key Findings

##### Students who consistently used *Newsela ELA* outperformed non-users



**Impact on Average Student Performance:** An average student not using *Newsela ELA* would be expected to score **5 percentile points higher** on the i-Ready Reading Diagnostic had they used *Newsela ELA*.



**Impact on Students of Color Performance:** An average student of color not using *Newsela ELA* would also be expected to show significant improvements by scoring **3 percentile points higher** on the i-Ready Reading Diagnostic had they used *Newsela ELA*.

Note: These findings were statistically significant at the  $p = 0.05$  level.

### Conclusions

This study satisfies ESSA evidence requirements for Level II (Moderate Evidence) given the positive, statistically significant findings.

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## Introduction

*Newsela ELA*, by Newsela, supports reading skill and strategy development in alignment with the Science of Reading. It provides students with opportunities to practice and build vocabulary, comprehension skills, and background knowledge. Further, *Newsela ELA* offers diverse perspectives that represent all students and facilitates engagement and motivation to learn.

As part of their ongoing efforts to demonstrate the effectiveness of *Newsela ELA*, Newsela contracted with LearnPlatform by Instructure (LearnPlatform), a third-party edtech research company, to examine the relationship between consistent usage on *Newsela ELA* and student outcomes in English language arts (ELA). LearnPlatform designed the study to satisfy Level II requirements (Moderate Evidence) according to the Every Student Succeeds Act (ESSA). Specifically, researchers executed a well-designed and well-implemented quasi-experimental study to examine the impacts of 6<sup>th</sup>–8<sup>th</sup> grade students' consistent usage of *Newsela ELA* on ELA achievement. The current study had the following research questions:

### **Newsela ELA Implementation**

1. Of the students who consistently used *Newsela ELA* (i.e., twice a week on average):
  - a. How many unique days, weeks, and months did students engage with a text on average?
  - b. How many unique texts did students engage with on average?
  - c. How many Newsela ELA quizzes did students take on average?

### **Effectiveness**

2. How did students' ELA achievement on the i-Ready Reading Diagnostic for those who used *Newsela ELA* consistently compare to students who did not use the product?
3. Did this comparison differ for students of color who used *Newsela ELA* consistently when compared to students of color who did not use the product?

## Methods

This section of the report briefly describes the study's design, setting, participants, measures, and analytical methods.

### Study Design

This study used a quasi-experimental design with propensity score matching to align with ESSA Level II evidence standards (see Appendix A for more information about the propensity score matching procedures used in this study). To allow for comparisons of ELA performance between students who used *Newsela ELA* consistently (i.e., twice a week on average) and students who did not use the product, the study included two groups of students. Specifically, one group included students who used *Newsela ELA* at least monthly during the 2022–23 school year (treatment group). The other group included students who did not use the product at all during the 2022–23 school year (comparison group).

### Setting

The study included 1,330 6<sup>th</sup>–8<sup>th</sup> grade students (665 students who consistently used *Newsela ELA* and 665 students who did not use it across 27 elementary and middle schools in a large, suburban school district in Washington.

### Participants

There were 665 students from 27 schools who consistently used *Newsela ELA*, which was twice a week on average.<sup>1</sup> According to student demographic data provided by the district, approximately three-fourths of these students were in 7<sup>th</sup> grade (70%), followed by 8<sup>th</sup> grade (17%) and 6<sup>th</sup> grade (13%). These students were evenly split between females (50%) and males (50%) and represented various races and ethnicities including White (47%), Hispanic or Latino (21%), Asian (14%), Two or more races (10%), and Black/African American (8%). Roughly 6% of these students received special education services and 12% identified as English language learners. Lastly, approximately a third of the students (30%) received free and/or reduced-price lunch.

The comparison group of students also consisted of 665 students from six schools.<sup>2</sup> The district's demographic data showed these students were split between 8<sup>th</sup> grade (38%), 6<sup>th</sup> grade (35%), and 7<sup>th</sup> grade (27%). Like the treatment group, these students were also evenly divided between females (51%) and males (49%). Further, these students represented the following races and ethnicities: White (43%), Hispanic or Latino (23%), Asian (15%), Two or more races (11%), Black/African American (6%), Native Hawaiian/Pacific Islander (1%), and American Indian (<1%). Four percent of the comparison students received special education services, 11% were classified as English language learners, and 33% received free and/or reduced-price lunch.

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<sup>1</sup> The minimum required level of usage to be included in the study was at least once a month.

<sup>2</sup> All six comparison schools also included a sample of students who consistently used *Newsela ELA*.

## Measures

Researchers used 2022–23 student-level *Newsela ELA* usage data (i.e., the number of unique days, weeks, and months students engaged with a text, the number of unique texts that students engaged with, and the number of quizzes that students completed) to inform the extent to which students used *Newsela ELA* during the school year and whether consistent usage (i.e., twice a week on average) related to ELA outcomes on the i-Ready Reading Diagnostic. The i-Ready Reading Diagnostic is a district-administered and standardized end-of-year assessment that addresses student understanding of grade-level standards in reading (Curriculum Associates, 2023). Pretest (i.e., spring 2022) and posttest (i.e., spring 2023) assessments were administered to all 6<sup>th</sup>–8<sup>th</sup> grade students in the study.<sup>3</sup>

## Data Analysis

Researchers used a variety of quantitative analytic approaches. Specifically, researchers used descriptive statistics to describe participant characteristics and support analyses of implementation. In addition, LearnPlatform researchers conducted regression analyses to examine any differences between the treatment and comparison students on the i-Ready Reading Diagnostic. The regression analyses included student-level covariates to control for potential selection bias. In addition, researchers calculated standardized effect sizes, Hedges' *g*, to measure the size of the difference between the two groups and percentile points to aid in interpretation of the effects.

## Baseline Equivalence

To ensure the validity of the study's findings and to adhere to ESSA Level II standards, researchers assessed the equivalence of standardized assessment scores between student groups (i.e., treatment and comparison students). Students who consistently used *Newsela ELA* were not statistically significantly different from students who did not use the product regarding their scores on the spring 2022 i-Ready Reading Diagnostic (pretest; effect size = 0.10). Baseline differences with an effect size between 0.05 and 0.25 must include acceptable statistical adjustments in analyses (What Works Clearinghouse, 2022). Therefore, spring 2022 i-Ready Reading Diagnostic scores were statistically controlled for in the final models. See Appendix A for more details regarding baseline equivalence.

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<sup>3</sup> Access to Fall 2022 i-Ready Reading Diagnostic data was not available at the time of this study.

## Program Implementation

This section presents descriptive findings related to *Newsela ELA* implementation. Researchers analyzed usage from the program to determine the extent to which 6<sup>th</sup>–8<sup>th</sup> grade students used *Newsela ELA* during the 2022–23 school year.

### Of the students who consistently used *Newsela ELA* (i.e., twice a week on average):

- How many unique days, weeks, and months did students engage with a text on average?
- How many unique texts did students engage with on average?
- How many *Newsela ELA* quizzes did students take on average?

Over the duration of the study, 6<sup>th</sup>–8<sup>th</sup> grade students who consistently used *Newsela ELA* engaged with unique texts for an average of 37 days (range: 15–87), 20 weeks (range: 9–34), or 9 months (range: 9–10). **This translates to students using *Newsela ELA* approximately twice a week on average** and more frequently than the minimum required level of usage to be included in the study (i.e., at least monthly). Students engaged with an average of 49 (range: 12–326) unique texts during the study period. Therefore, these students generally engaged with one unique text per day given the average number of active days on the program (37 days). Lastly, students took an average of 32 (range: 0–164) ELA quizzes over the duration of the school year. As a result, the average *Newsela ELA* student took a quiz on 65% of the texts that they engaged with. Table 1 provides the average *Newsela ELA* usage for the 2022–23 school year.

Table 1. Average *Newsela ELA* student usage by number of unique days, weeks, months, text engagements, and *Newsela ELA* quizzes taken

	Days	Weeks	Months	Text Engagements	<i>Newsela ELA</i> Quizzes Taken
 Overall ( $n=665$ )	37	20	9	49	32



## Effectiveness Findings

The following sections detail the effectiveness findings from examining the differences in i-Ready Reading Diagnostic performance by student group (treatment and comparison). Researchers controlled for student-level covariates including school, grade, gender, race/ethnicity, special education, English language learner, free and/or reduced-price lunch, and spring 2022 i-Ready Reading Diagnostic scores.<sup>4</sup> Additional information on these analyses and findings can be found in Appendix B. Researchers reported statistically significant findings at the  $p = .05$  level. To determine the magnitude of the relationship or the size of group differences, researchers calculated standardized effect sizes (Hedges'  $g$ ). Researchers also presented findings using percentile points to aid in interpretation.

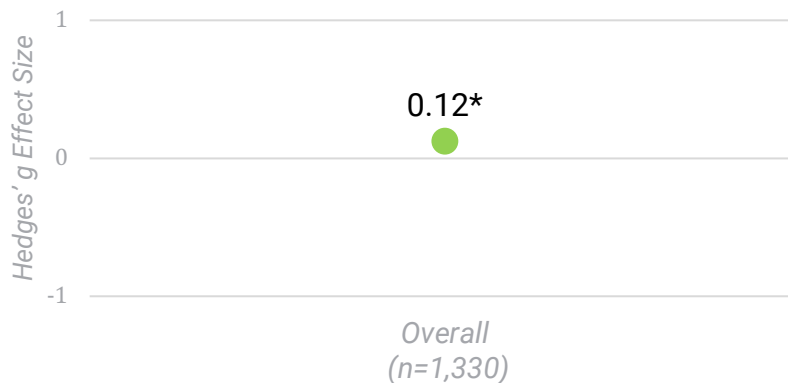
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Key  
Question

### How did students' ELA achievement on the i-Ready Reading Diagnostic for those who used *Newsela ELA* consistently compare to students who did not use the product?

Researchers conducted a regression analysis to determine whether there were any differences on i-Ready Reading Diagnostic performance between 6<sup>th</sup>–8<sup>th</sup> grade students who consistently used *Newsela ELA* and students who did not use the product. Findings suggest that students who consistently used *Newsela ELA* scored statistically significantly higher on the spring 2023 i-Ready Reading Diagnostic when compared to students who did not use the product (see Figure 1). Specifically, a comparison student at the 50<sup>th</sup> percentile would be expected to perform 5 percentile points higher on the i-Ready Reading Diagnostic (55<sup>th</sup> percentile) had they used *Newsela ELA* (see Figure 2).

#### Students who consistently used *Newsela ELA* scored higher on the spring 2023 i-Ready Reading Diagnostic when compared to students who did not use the product

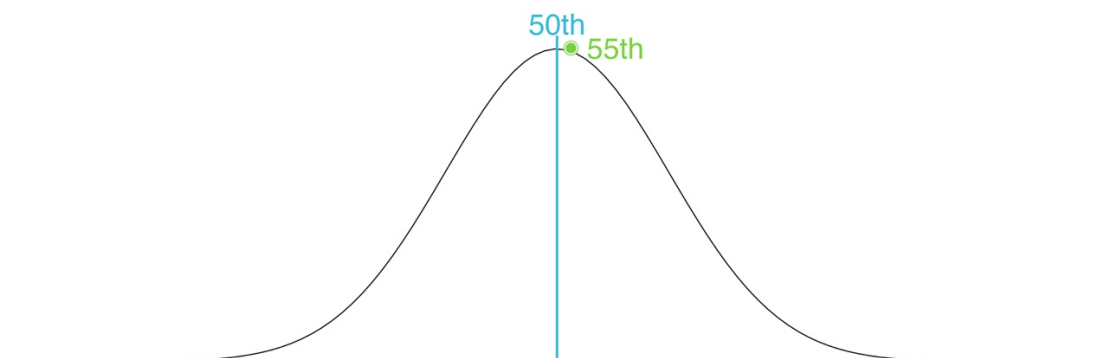


Note: Statistically significant findings are green (positive relationship) with an asterisk by the effect size. Hedges'  $g$  estimates can exceed the range represented in this figure.

Figure 1. Regression between students who consistently used *Newsela ELA* and students who did not use the product for student achievement on spring i-Ready Reading Diagnostic scores.

<sup>4</sup> Analyses for students of color included all the same covariates as the overall model except race/ethnicity.

A comparison student at the 50<sup>th</sup> percentile would be expected to perform 5 percentile points higher on the i-Ready Reading Diagnostic had they used Newsela ELA



Note: The 50<sup>th</sup> percentile (midpoint) is represented by the blue line with the expected performance had they used Newsela ELA being represented by the green point.

Figure 2. Regression findings between students who consistently used Newsela ELA and students who did not use the product reported using percentile points.

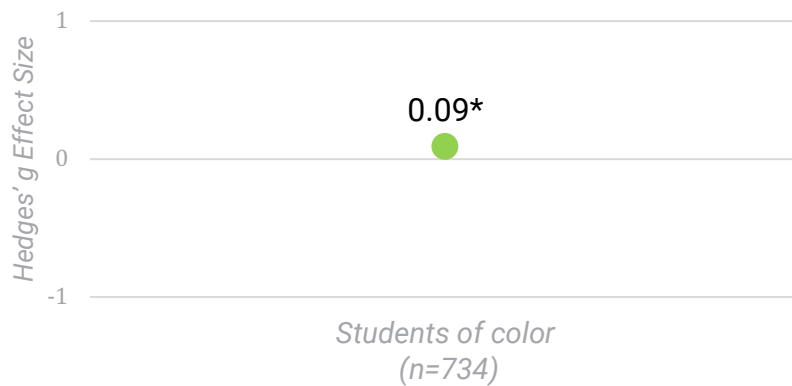
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Key  
Question

## Did this comparison differ for students of color who used Newsela ELA consistently when compared to students of color who did not use the product?

Researchers conducted an additional regression analysis to determine whether there were any differences on i-Ready Reading Diagnostic performance between students of color who consistently used Newsela ELA and students of color who did not use it. Findings suggest that students of color who consistently used Newsela scored statistically significantly higher on the spring 2023 i-Ready Reading Diagnostic when compared to students of color who did not use the product (see Figure 3). A comparison student of color at the 50<sup>th</sup> percentile would be expected to perform 3 percentile points higher on the i-Ready Reading Diagnostic (53<sup>th</sup> percentile) had they used Newsela ELA (see Figure 4).

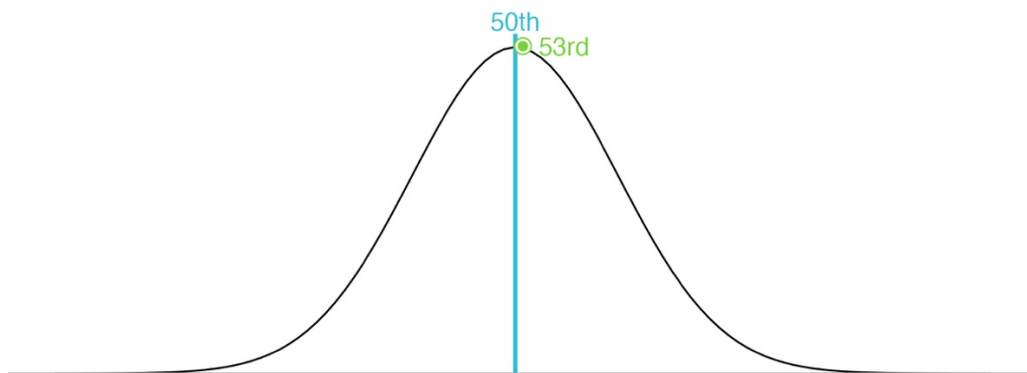
Students of color who consistently used Newsela ELA scored higher on the spring 2023 i-Ready Reading Diagnostic when compared to students of color who did not use the product



Note: Statistically significant findings are green (positive relationship) with an asterisk by the effect size. Hedges' g estimates can exceed the range represented in this figure.

Figure 3. Regression between students of color who consistently used Newsela ELA to students of color who did not use the product for student achievement on spring i-Ready Reading Diagnostic scores.

A comparison student of color at the 50<sup>th</sup> percentile would be expected to perform 3 percentile points higher on the i-Ready Reading Diagnostic had they used Newsela ELA



Note: The 50<sup>th</sup> percentile (midpoint) is represented by the blue line with the expected performance had they used Newsela ELA being represented by the green point.

Figure 4. Regression findings between students of color who consistently used Newsela ELA and students of color who did not use the product reported using percentile points.

## Conclusions and Recommendations

In this study, results indicated that students who consistently (i.e., twice a week on average) used *Newsela ELA* outperformed a comparison group of students who did not use the product. Those findings suggest that **an average student not using *Newsela ELA* would be expected to score 5 percentile points higher on the i-Ready Reading Diagnostic had they used *Newsela ELA*.** These findings also held when considering only students of color. Specifically, **an average student of color reported as not using *Newsela ELA* would be expected to score 3 percentile points higher on the i-Ready Reading Diagnostic had they used *Newsela ELA*.** These findings were statistically significant and positive.<sup>5</sup>

Provided the positive outcome findings for students, this study provides results to satisfy ESSA evidence requirements for Level II (Moderate Evidence). Specifically, this quasi-experimental study met the following criteria for Level II:

- ✓ Proper design and implementation
- ✓ Baseline equivalence for treatment and comparison groups
- ✓ Statistical controls through covariates
- ✓ At least 350 students in the analytical sample
- ✓ Representative, multi-site study
- ✓ At least one statistically significant, positive finding

In addition to ESSA Level II, this study was designed to align with the standards, *Meets WWC Standards With Reservations*, according to the What Works Clearinghouse Version 5.0 Procedures and Standards Handbook (What Works Clearinghouse, 2022).

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<sup>5</sup> Similar positive impacts on students in a different educational context (i.e., large, urban school district in California) were found in another LearnPlatform study of *Newsela ELA* (Henschel & Scanlan, 2024).

## References

Curriculum Associates (2023). i-Ready. <https://www.curriculumassociates.com/>.

Henschel, M. & Scanlan, A (2024). *Newsela ELA for Middle School Students in California ESSA Level II Study*. Salt Lake City, UT: LearnPlatform by Instructure.

What Works Clearinghouse, Institute of Education Sciences, U.S. Department of Education (2022). *What Works Clearinghouse: Standards Handbook (Version 5.0)*. <http://whatworks.ed.gov>

## Appendix A. Additional Information on Study Design and Methods

### Propensity Score Matching

To help make the student groups (i.e., students who consistently used *Newsela* and students who did not use it) as comparable as possible, propensity score matching was performed. To calculate propensity scores, researchers conducted a regression with student group as the dependent variable and school, grade, gender, race/ethnicity, special education status, English language learner, free and/or reduced-price lunch, and spring 2022 i-Ready Reading Diagnostic scores as the covariates. The probability pairs were saved as a new variable. Researchers then organized the pairs into the appropriate groups to allow for 1:1 neighbor matching. Comparison students without a treatment match were dropped from the final analytic sample.

### Baseline Equivalence

Researchers conducted baseline equivalence analyses to determine whether there were baseline differences between students who consistently used *Newsela ELA* and students who did not use the product during the 2022–23 school year. Specifically, researchers used a regression analysis to examine pretest scores (i.e., spring 2022 i-Ready Reading Diagnostic). As noted in Table A1, there were no statistically significant differences between groups regarding spring 2022 i-Ready Reading Diagnostic scores. Given that p-value is approaching significance and significant baseline differences with an effect size between 0.05 and 0.25 must include acceptable statistical adjustments in analyses (What Works Clearinghouse, 2022), spring 2022 i-Ready Reading Diagnostic scores were statistically controlled for in the final models.

Table A1. Baseline equivalence analysis of spring 2022 i-Ready Reading Diagnostic scores by student group

Outcome Variable	Coefficient	Standard Error	t-value	p-value	Effect Size
Spring 2022 i-Ready Reading Diagnostic composite score	5.64	3.00	1.88	.06	0.10

## Appendix B. Additional Information on Study Findings

The following sections show additional information regarding the study's findings. Researchers report statistically significant findings at the  $p = 0.05$  level and calculated standardized effect sizes.

### How did students' ELA achievement on the i-Ready Reading Diagnostic for those who used Newsela ELA consistently compare to students who did not use the product?

Researchers ran a regression analysis with i-Ready Reading Diagnostic spring scores as the outcome of interest to examine differences between student groups. Specifically, the overall model included study condition (treatment or comparison) school, grade, gender, race/ethnicity, special education status, English language learner, free and/or reduced-price lunch, and i-Ready Reading Diagnostic spring 2022 scores (see Table B1).

Table B1. Greater details of regression between student groups and achievement on spring i-Ready Reading Diagnostic scores

	Coefficient	Standard Error	t-value	p-value	Effect Size
Overall ( $n=1,330$ )	6.70	1.79	3.73	0.00*	0.12

Note: \*Statistically significant at the 0.05 level.

### Did this comparison differ for students of color who used Newsela ELA consistently when compared to students of color who did not use the product?

To examine differences between students of color groups, researchers ran an additional regression analysis with i-Ready Reading Diagnostic spring scores as the outcome of interest and included study condition, school, grade, gender, special education status, English language learner, free and/or reduced-price lunch, and i-Ready Reading Diagnostic spring 2022 scores (see Table B2).

Table B2. Greater details of regression between students of color groups and achievement on spring i-Ready Reading Diagnostic scores

	Coefficient	Standard Error	t-value	p-value	Effect Size
Students of color ( $n=734$ )	5.86	2.55	2.30	0.02*	0.09

Note: \*Statistically significant at the 0.05 level.