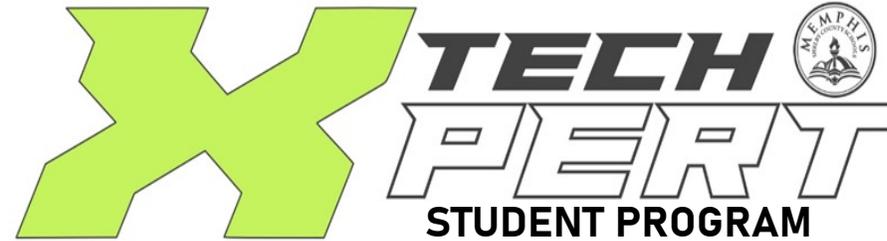


# ESSER KPIs: September 2022



# Program Overview



This year-round program supports middle school technology exposure and exploration, specifically in the areas of **eGaming, game design, coding, robotics, mobile app development and utilization of 1:1 student devices**. Students also serve as a technology expert in the classroom, supporting teachers and peers with student devices and applications such as Teams. Students will earn a MOS industry certification at the conclusion of the program.

## **The Tech Xpert Program:**

- a)** provides students with the skills and knowledge needed to master new computer science standards to be implemented in all Tennessee schools starting in the 2023-24 school year;
- b)** equips parents and students with early interest in technology needed to make informed decisions about high school and post-secondary options; and
- c)** ensures that students enter high school with, at minimum, 1 industry certification qualifier to be a Ready Graduate.

# Key Performance Indicators



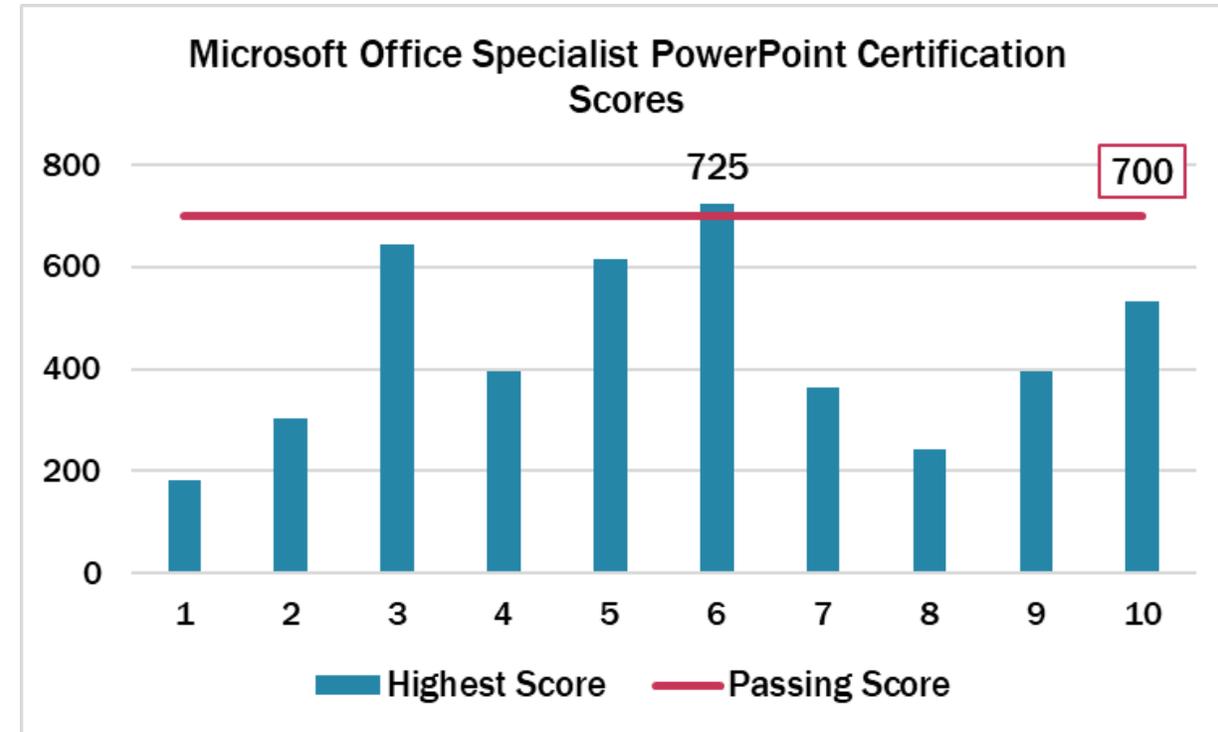
Key Performance Indicators	Status
Students will earn <b>1</b> industry certification to build essential <b>21st</b> century skills.	
Students will deepen technical knowledge.	
Students will develop hands-on computer technical skills through working with the facilitator and <b>DDA</b> at the school.	TBD

**ROI Analysis:** ROI will be calculated at the conclusion of the year-long program.

# Student Tech Xpert Summer Immersion Program



- TechXpert is now a **year-round program** that also includes a **2-week intensive summer component**.
- **37 middle schoolers from 20 MSCS schools participated** in the two-week Tech Xpert Summer Immersion Program hosted at Middle College HS.
- **After just 2 weeks**, the top 30% of students who successfully mastered the Test Out pretest were given the opportunity to take the Microsoft Office Specialists (MOS) PowerPoint Certification exam.
- **1 student earned their industry certification**, with 3 more students on the cusp.



# Student Tech Xpert 2022-23 Participating Schools



North	West	Central	South	East
<b>Division I</b>	<b>Division II</b>	<b>Division III</b>	<b>Division IV</b>	<b>Division V</b>
<ul style="list-style-type: none"><li>• Craigmont MS</li><li>• Douglass K-8 *</li><li>• EE. Jeter K-8</li><li>• Georgian Hills MS</li><li>• Grandview Heights MS</li><li>• Kingsbury MS</li><li>• Treadwell MS</li><li>• Raleigh Egypt MS</li><li>• Woodstock MS</li></ul>	<ul style="list-style-type: none"><li>• A Maceo Walker MS*</li><li>• Chickasaw MS</li><li>• Geeter MS</li><li>• Havenview MS</li><li>• John P. Freeman K-8</li><li>• Oakhaven MS</li><li>• Riverview MS</li></ul>	<ul style="list-style-type: none"><li>• Bellevue MS</li><li>• B. T. Washington 6-12</li><li>• Cummings K-8</li><li>• Hamilton K-8</li><li>• Ida B. Wells MS*</li><li>• Maxine Smith Academy</li><li>• Snowden School K-8*</li></ul>	<ul style="list-style-type: none"><li>• American Way MS</li><li>• Colonial MS*</li><li>• Germantown MS</li><li>• Hickory Ridge MS</li><li>• Highland Oaks MS</li><li>• Lowrance School K-8*</li><li>• Ridgeway MS</li><li>• Sherwood MS</li><li>• White Station MS</li></ul>	<ul style="list-style-type: none"><li>• Barrett's Chapel School</li><li>• Cordova MS</li><li>• Dexter MS*</li><li>• Kate Bond MS*</li><li>• Mt. Pisgah MS</li></ul>

Using MSCS school location map, the city was divided into 5 divisions based on geographical location.

# Student Tech Xpert 2022-23 Participating Schools



- Bellevue Middle
- Chickasaw Middle
- Cordova Middle
- Cummings School (grades 6-8)
- Grandview Heights Middle
- Havenview Middle
- Hickory Ridge Middle
- Mt. Pisgah School (grades 6-8)
- Sherwood Middle
- Treadwell Middle

All MSCS middle schools will participate in the Tech Xpert Student Ambassador Program in the 2023–24 school year.

# What's Next for Tech Xpert?



- Tech Xpert Student Ambassadors will engage in Digital Device Troubleshooting **training led by Informational Technology** to troubleshoot 1:1 devices and help reduce the number of inoperable devices.
- The Tech Xpert Program, in partnership with Code Crew and Amazon, will **host a District-wide, full day coding camp, Get Ready! Let's Code!** for middle schoolers that includes coding and programming. We are expecting **300+ students** to attend on Saturday, October 1st at Parkway Village ES. Learning sessions include activities such as:
  - Sphero Bolt
  - Mobile app development
  - Video game creation
- As part of the year-long program, Tech Xpert Student Ambassadors will **participate in the Amazon Cyber Robotics Challenge**. Students will:
  - Learn computer science 101
  - Program an AmazonBot (robot) to fill orders received through Amazon's website
- Tech Xperts will also engage in **learning excursions to the local Amazon Fulfillment Centers** to learn how robotics is used every day to fill millions of product orders around the world.



# Summer Learning Academy (SLA)

## Program Overview:

The Summer Learning Academy is a four-week summer educational program, as part of the learning loss remediation and student acceleration program, that is designed to support student academic needs and remediate student learning loss.

## Program Goals:

Provide academic enrichment for students during the summer to decrease the "summer slide" and improve student academic skills in literacy and math.

Key Performance Indicators	Status
Increase student mastery by 5 percentage points on the Summer Learning Academy pre- and post-assessment, for students who attend at least 95% of the program.	TBD
Reduce the number of students identified as Tier 3 by 7-10 percentage points, based on RTI diagnostic data, for students who attend at least 95% of the program.	TBD
Provide summer learning opportunities for MSCS students.	●

## ROI Analysis:

ROI will be calculated once the iReady fall data is available.

# Summer Learning Academy



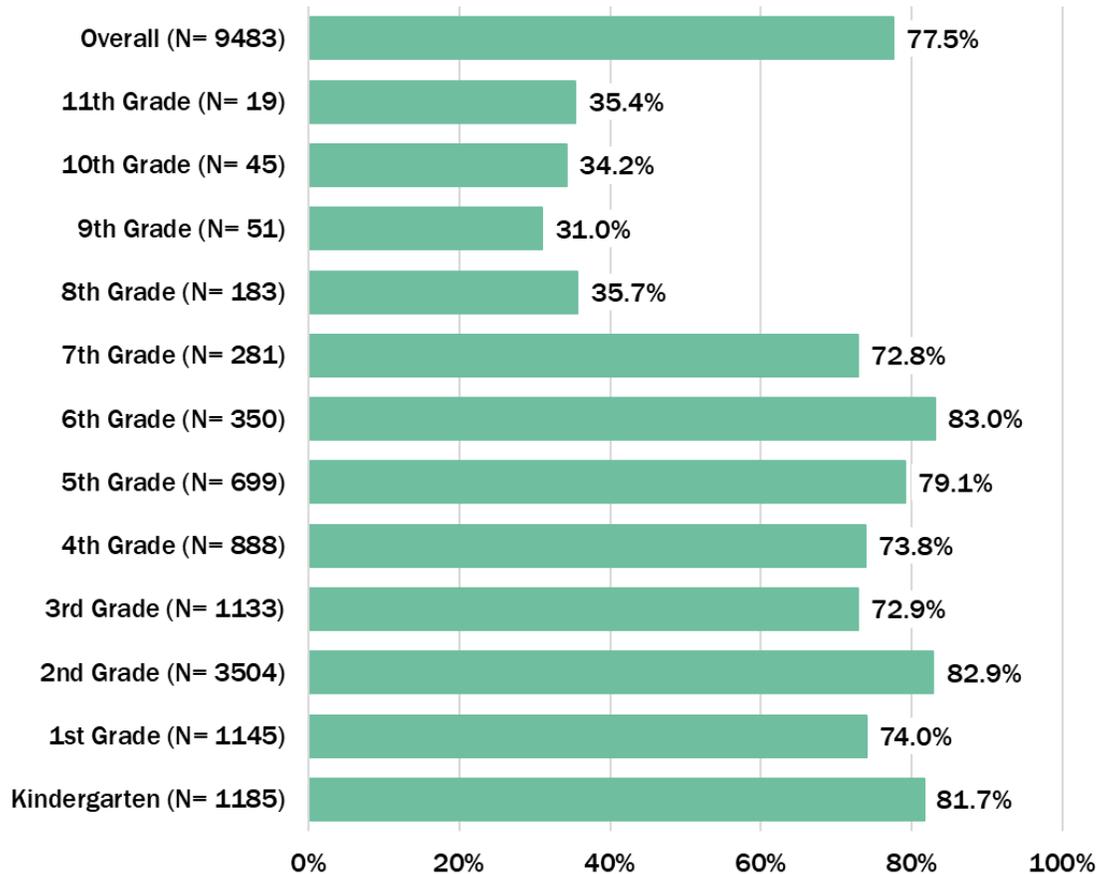
## Enrollment

- **9,483 students attended SLA** (not inclusive of summer school).
- **2<sup>nd</sup> grade students participated at the highest rate**, ( $n = 3,504$ ), while **K–3 students made up 73%** of the students served.

## Attendance

- **The attendance rate was 78%** overall, with **rates for K–8 ranging from 73% to 83%**.
- SLA took place over 23 days, so students **missed an average of 5 days** of the program.

SLA Average Attendance Rate by Grade

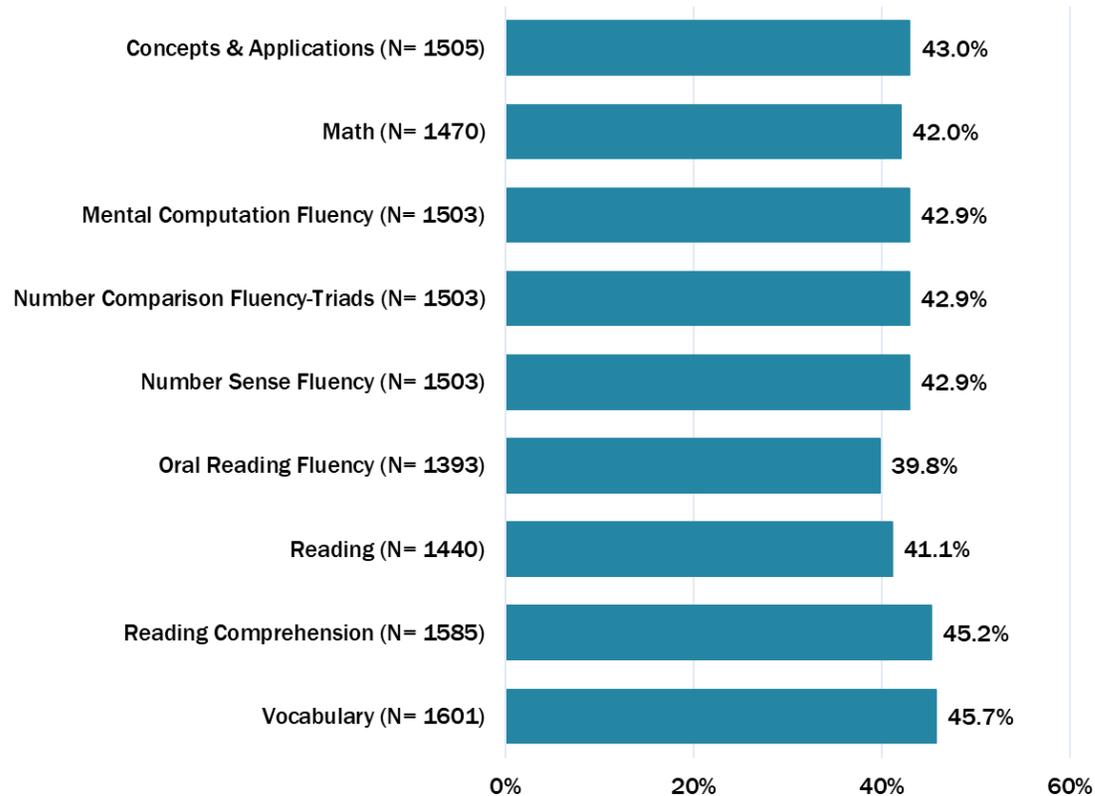


# Summer Learning Academy

## Assessments



Percent of Total SLA 2<sup>nd</sup> Graders who took a Pre & Post Test for each AIMSweb Test



- **AIMSWeb was new to SLA in 2022.**
  - The District received guidance on AIMSWeb just prior to the start of SLA.
  - **Limited time for training** and **difficulty accessing the platform** caused enrollment issues.
  - **10,000+ students had to be enrolled** in the platform.
- **K–2 students took various subsections** of the assessment.
- **40–46% of 2nd graders completed pre- & post-tests** on the tested domains.
- **Kindergarteners' and first graders' completion ranged from 3–34%** on their domains.
  - For both grades **at least half the domains had 18–34% completion rates.**

# Summer Learning Academy

## Assessments

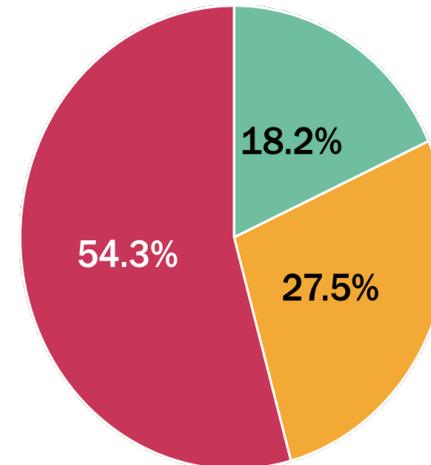


■ No tests on record ■ Both pre- & post-test during window ■ One test outside window

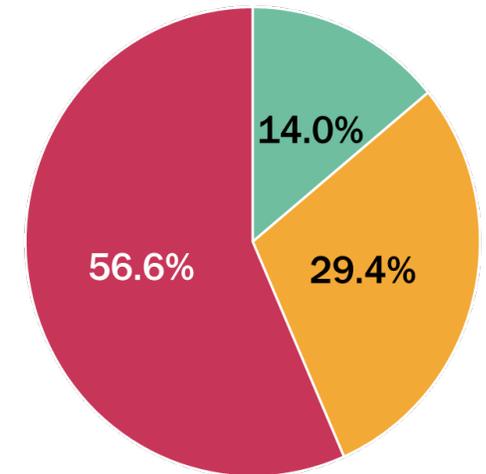
- **3<sup>rd</sup> Grade students were supposed to take the SchoolNet state-mandated test.** The SchoolNet assessment is offered in ELA and Math through the online SchoolNet platform.
- This was **the first year using this test during this program** and **schools faced challenges** in administering the tests during the windows.
- **The iReady Spring to Fall diagnostic will be used** to assess the extent to which SLA decreased the "summer slide" for participating students, available in October.

### 3rd Grade SchoolNet Testing

#### ELA Testing



#### Math Testing





# AP Virtual Academy

## Program Overview:

The AP Virtual Academy provides access to online AP courses taught by MSCS AP-certified instructors to increase access for ALL MSCS students.

## Program Goals:

Provide additional advanced academic opportunities to students who might otherwise not have the opportunity to participate in AP courses at their school.

Key Performance Indicators	Status
Increase the percent of students enrolled in advanced courses.	

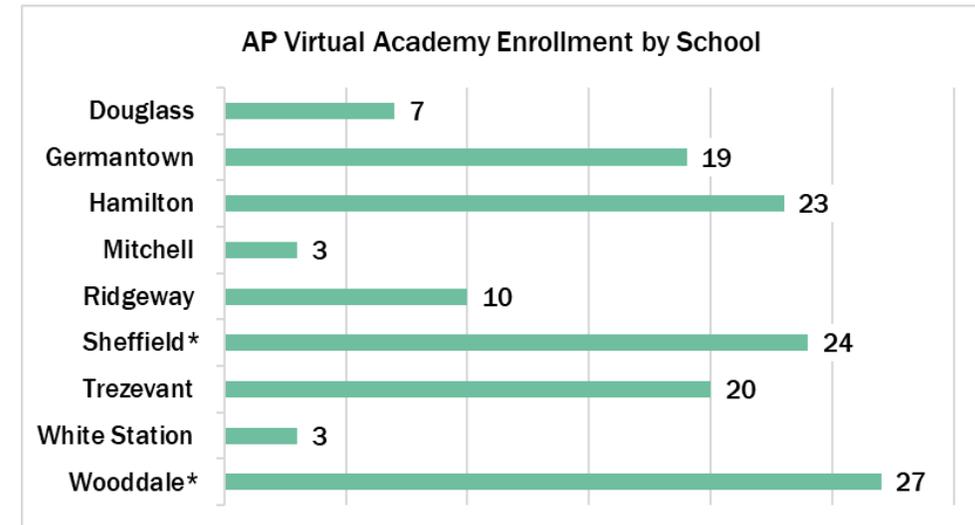
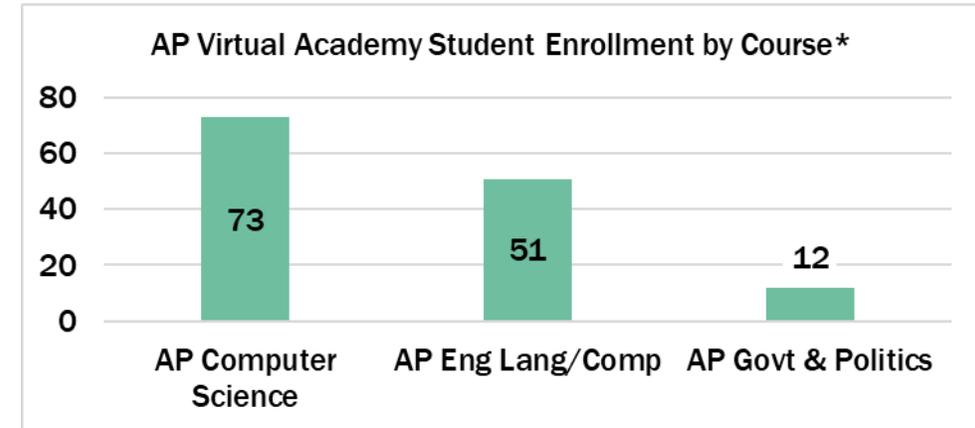
## ROI Analysis:

ROI will be calculated at the conclusion of the year-long program after AP scores are received.

# AP Virtual Academy



- **AP Virtual Academy launched in August 2022 and is one part** of the ESSER initiatives that focus on increasing AP access.
- **3 courses are being offered** this fall **serving 136\*** students.
  - AP Computer Science Principles ( $n = 73$ )
  - AP English Language and Composition ( $n = 51$ )
  - AP Government and Politics ( $n = 12$ )
- **4 additional courses are planned for 2023–24.**
- **9 schools are participating**, and **8 schools would not be able to offer the respective AP course** without AP Virtual Academy.
- The MSCS AP Virtual Academy **teachers provide additional support across the District.**
  - Weekly virtual/in-person tutoring.
  - Weekly mentoring of novice teachers.



\* Numbers may fluctuate down by about 10 students after schools correct any enrollment errors.

# AP Virtual Academy



## Challenges

### • Launch Challenges

- AP Academy was not launched as planned in 2021-22 because **ESSER Funds were received too late to hire teachers**; positions were posted but viable candidates were not available.
- For 2022-23, **one teacher who was hired resigned; another teacher was recommended but not hired through HR**; two additional AP Academy teachers will be hired for 23-24.
- The AP **Computer Science Principles teacher was hired the week before school started**, which limited enrollment in the course.
- **AP Access for All courses** (state-run asynchronous AP courses) **are used to supplement AP Academy courses to ensure students have access to AP courses.**

### • Scheduling Challenges

- AP Virtual Academy's Hybrid schedule incorporates both block and traditional scheduling; **high schools with conflicting bell schedules cannot currently participate.**

# Advanced Academics

## Other ESSER-Funded Activities that Expand AP Districtwide

- **31 AP teachers were trained and authorized to teach AP courses** for 2022-23.
- 1 ESSER-funded AP Manager and 2 advisors **provide oversight for the AP Academy and build teacher capacity** in all AP courses & District- managed HS throughout the District.
- **AP exam fees were paid for economically disadvantaged students** or students experiencing economic challenges.
- **The Pre-AP Program increased by 25%**, offering a total of 75 Pre-AP courses in 27 District-managed high schools.
- **Mentoring, tutoring, summer camps, and supplementary materials** are funded to support AP students.





# Senior Reading Advisors

## Program Overview:

The Senior Reading Advisor (SRA) is a highly-skilled, 12-month instructional position in select middle and high schools.

## Program Goals:

Improve literacy skills in middle- and high-schoolers who have severe foundational literacy deficits.

Key Performance Indicators	Status
Achieve at least Level 4 TVAAS on English Language Arts TCAP assessment	N/A
Increase in percentage of students achieving on-track and mastered performance on English Language Arts by 5 percentage points	●
Increase the percentage of students achieving on-track and mastered performance across subgroups by at least 5 percentage points	●
Achieve a pre-test to post-test gain of 20 percentage points on the Reading Horizons diagnostic	●
Gain an average of 100 Lexiles from pre-test to post-test on Reading Horizons diagnostic	●

# Senior Reading Advisors

## Lexile Scores

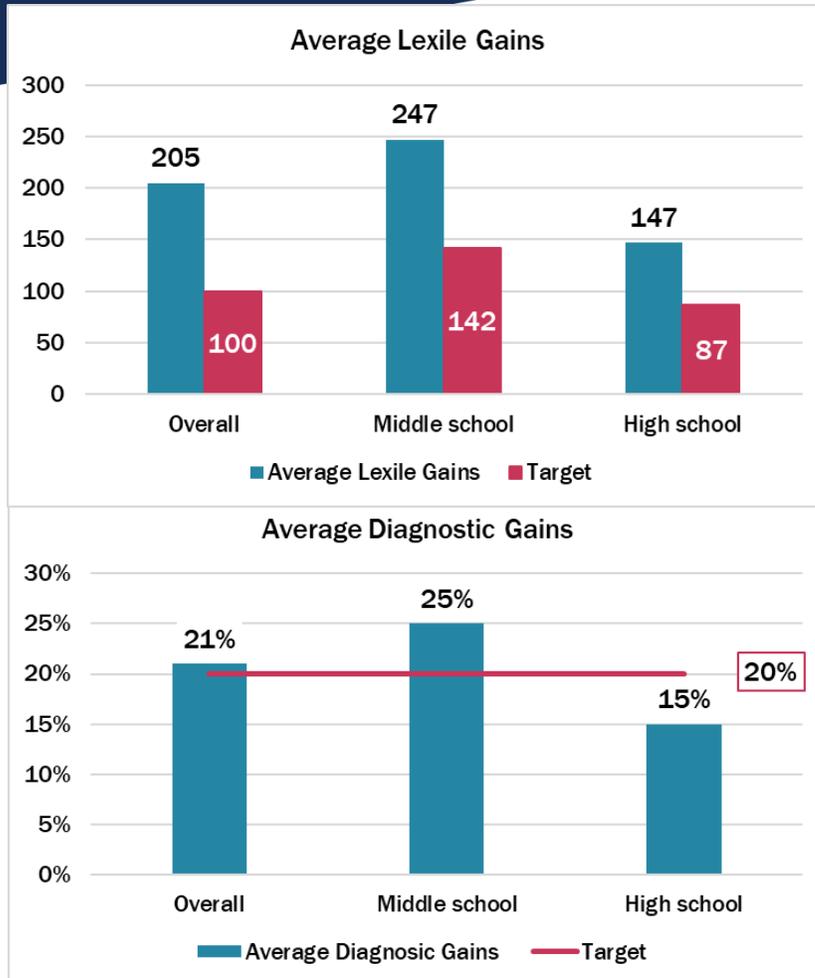


- **Lexile measures are a valid, universal scale to evaluate students' reading level and potential growth over the course of a year.**
- Students participating in the SRA program have **severe deficits in foundational literacy skills.**
- Middle school students **started the year with a Lexile score around 300** and based on this starting point had an **expected growth of 142 Lexiles for the year.**
- High school students **started the year with a Lexile score around 500** and based on this starting point had an **expected growth of 87 Lexiles.**

# Senior Reading Advisors



## Reading Horizons



- SRA-taught students **increased their performance on the diagnostic by an average of 21%** from the beginning of the year to the end.
- Students **gained an average of 205 Lexiles** throughout the year.

### Gains by Grade Band

- Middle schoolers **increased performance by 25%** and averaged **247 Lexile gains** or 142 Lexiles above what was expected.
- High schoolers showed **15% diagnostic gains** and **gained an average of 147 Lexiles** or 60 Lexiles above what was expected.

# Senior Reading Advisors

## Subgroups



### Reading Horizons Assessments

- Mean diagnostic **gains ranged from 18% to 28%**.
  - **English Learners and Students with Disabilities showed the highest gains (28% & 26%, respectively).**
- Mean Lexile **gains ranged from 135 to 422** and **all groups met the target goal**.
  - Students who identify as **Native American, Multiracial, or White** gained an average of **422 Lexiles**.
  - Students with Disabilities had the lowest Lexile growth, but **it was still 35 Lexiles over the goal** of 100.

Gains on Reading Horizons Diagnostic from Beginning to End of 2021-22

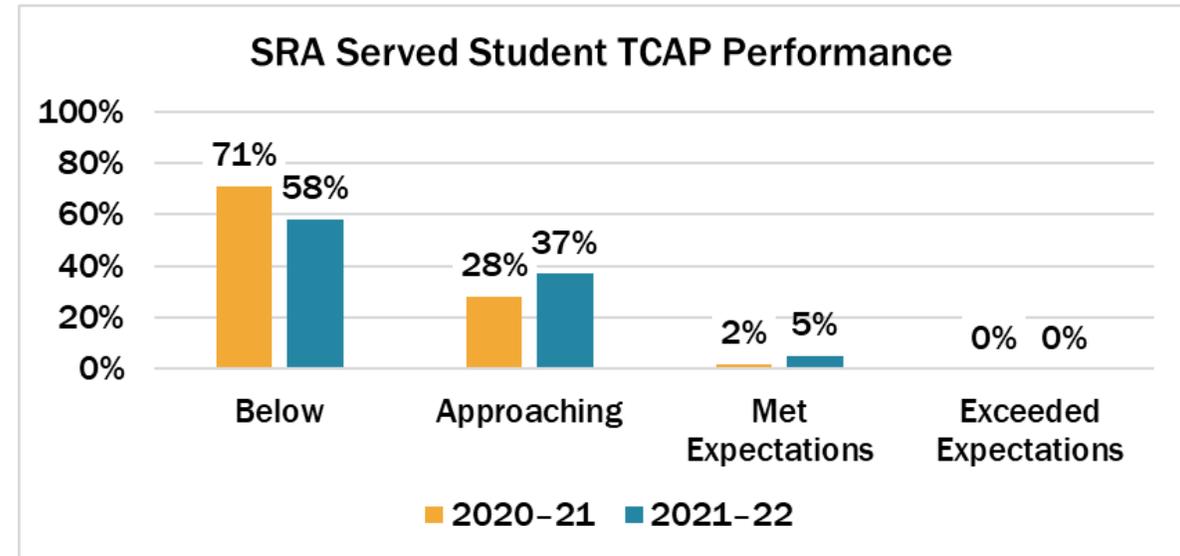
Subgroup	N	Mean Percentage Gain	Mean Lexile Gain
Black/African American	553	20%	204
Latinx	70	24%	161
Native American, Multiracial, or White	20	18%	422
Direct Certified	492	21%	213
English Learners	37	28%	164
Students with Disabilities	17	26%	135

# Senior Reading Advisors



## TCAP

- **TCAP is a standards-based assessment** and many students participating in the SRA program are **multiple grade levels behind**.
- After participating in the SRA program, **students showed positive movement on their TCAP** compared to 2020–21.
- **16.1% of students who participated showed a net-positive move in TCAP performance-level** ( $n = 497$ )
  - 123 moved up a performance level
  - 331 scored in the same level
  - 43 moved down one category



# Senior Reading Advisors



## TCAP

Students who Met or Exceeded Expectations on TCAP						
	N	2020-21		2021-22		Percentage-Point Gain
		#	%	#	%	
Middle Schoolers	288	4	1%	6	2%	0.7
High Schoolers	209	4	2%	17	8%	6.2
Overall	497	8	2%	23	5%	3.0

### Overall

- The percentage of SRA-taught students who **met or exceeded expectations increased by 3 percentage points.**
- On average **students performed 1.8 percentile points higher** than their projected TCAP percentile ranking after participating in the program.

### Subgroups

- The gains among **Black and Latinx students were 3.1 and 1.8 percentage points, respectively.**
- **Direct-certified students improved by 1.3 percentage points.**
- Met or Exceeded Expectations rates for English learners and students with disabilities remained unchanged.

Students who Met or Exceeded Expectations on TCAP						
Subgroup	N*	2020-21		2021-22		Percentage-Point Gain
		#	%	#	%	
Black/African American	425	6	1%	19	4%	3.1
Latinx	56	1	2%	2	4%	1.8
Native American, Multiracial, or White	16	1	6%	2	13%	6.3
Direct Certified	372	5	1%	10	3%	1.3
English Learners	32	0	0%	0	0%	0
Students with Disabilities	13	1	8%	1	8%	0

\* Sample size is smaller than Reading Horizons sample due to missing TCAP data for one of the years.

# Senior Reading Advisors- Costs per Student

\$1,954,713 total program cost (2021–22)/ 644 students= **\$3,035 per student**

## Costs by Grade Band

- 10 middle schools had a total program cost of \$1,149,831 / 364 students = **\$3,158.88 per MS student**
- 7 high schools had a total program cost of \$804,882 /280 students = **\$2,874.58 per HS student**



# Senior Reading Advisors- Return on Investment

## ROI as measured by Lexile Gains\*

- Middle Schools
  - It costs the SRA program \$30 to move a MS student with sever literacy deficits one Lexile higher than they would otherwise be expected to gain.
  - **To move a MS student an additional half year of growth beyond what is expected it costs the SRA program =\$2,130**
- High Schools
  - It costs the SRA program \$48 to move a HS student with sever literacy deficits one Lexile higher than they would otherwise be expected to gain.
  - **To move a HS student an additional half year of growth beyond what is expected it costs the SRA program =\$1,440**
- After prorating by grade band and number of students served, **to move a student an additional half year of growth beyond what is expected it costs the SRA program = \$1,988**



\*Lexile scores were computed from the Reading Horizon Platform.

# Senior Reading Advisors

## Additional Analyses



**A full program evaluation report is forthcoming at the end of the month** from the Research team. It will include additional analyses.

- **Correlation between iReady Lexile scores and Reading Horizon's Lexile scores** to confirm the validity of the Reading Horizon measures.
- **Performance and ROI calculations for the middle school grade band using iReady growth scores** between fall and spring.