# USING DATA FROM SAT AND PSAT 

Presented by:
Tara Battistoni, M.S.
Supervisor of Research, Development, and Student Testing
Waterbury Public Schools

## AGENDA

- District Background
- Chronic absenteeism
-Student achievement
- Student growth
- Next steps


## DISTRICT BACKGROUND

- The SAT was adopted state-wide in Connecticut as the grade 11 assessment for accountability in 20152016
- The district also began administering PSAT 8/9, PSAT/NMSQT, and SAT in the fall, in addition to the spring grade 11 CT-SAT for accountability


## CHRONIC ABSENTEEISM

- Impact of chronic absenteeism on SAT (from EIT)

TOTAL

|  |  | N | Mean |
| :---: | :---: | :---: | :---: |
| TOTAL | Chronically Absent | 236 | 789.62 |
|  | NOT Chronically Absent | 798 | 874.61 |

MATH

|  |  | N | Mean |
| :---: | :---: | :---: | :---: |
| MATH | Chronically Absent | 236 | 387.92 |
|  | NOT Chronically Absent | 798 | 427.34 |

EBRW

|  |  | N | Mean |
| :---: | :---: | :---: | :---: |
| EBRW | Chronically Absent | 236 | 401.69 |
|  | NOT Chronically Absent | 798 | 447.27 |

## STUDENT ACHIEVEMENT (IPI)

## Indicator 1: Grade 3 ELA Calculation Example



## Grade 11 SAT Achievement Data Indicator \#1 - SPI/DPI

| SCHOOL | GRADE | LAST NAME | FIRST NAME | SASID | HIGH NEEDS | SPED | ELL | LUNCH | 504 | $\begin{gathered} \text { ELA } \\ \text { IPI } \\ 18-19 \end{gathered}$ | $\begin{aligned} & \text { MATH } \\ & \text { IPI } \\ & \text { 18-19 } \end{aligned}$ | SAT EBRW SCALE SPRING 18-19 | SAT EBRW LEVEL SPRING $18-19$ | SAT MATH SCALE SPRING $18-19$ | SAT MATH LEVEL SPRING $18-19$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 11 |  |  |  |  |  |  | P |  | 58.7 | 51.3 | 520 | 3 | 480 | 2 |
|  | 11 |  |  |  | Y |  |  | F |  | 56.8 | 56.8 | 510 | 3 | 510 | 2 |
|  | 11 |  |  |  | Y |  |  | R |  | 64.2 | 71.5 | 550 | 3 | 590 | 3 |
|  | 11 |  |  |  | Y |  |  | F |  | 51.3 | 55.0 | 480 | 3 | 500 | 2 |
|  | 11 |  |  |  | Y |  |  | F |  | 49.5 | 38.5 | 470 | 2 | 410 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 73.3 | 67.8 | 600 | 3 | 570 | 3 |
|  | 11 |  |  |  |  |  |  | P |  | 47.7 | 38.5 | 460 | 2 | 410 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 55.0 | 60.5 | 500 | 3 | 530 | 3 |
|  | 11 |  |  |  | Y |  |  | F |  | 49.5 | 47.7 | 470 | 2 | 460 | 2 |
|  | 11 |  |  |  | Y | Y |  | F |  | 16.5 | 14.7 | 290 | 1 | 280 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 56.8 | 51.3 | 510 | 3 | 480 | 2 |
|  | 11 |  |  |  | Y | Y |  | P |  | 34.8 | 29.3 | 390 | 1 | 360 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 40.3 | 42.2 | 420 | 2 | 430 | 2 |
|  | 11 |  |  |  | Y |  |  | F |  | 78.8 | 49.5 | 630 | 4 | 470 | 2 |
|  | 11 |  |  |  | Y |  | Y | F |  | 20.2 | 34.8 | 310 | 1 | 390 | 1 |
|  | 11 |  |  |  | Y | Y |  | P |  | 73.3 | 78.2 |  |  |  |  |
|  | 11 |  |  |  |  |  |  | P |  | 69.7 | 47.7 | 580 | 3 | 460 | 2 |
|  | 11 |  |  |  |  |  |  | P |  | 60.5 | 58.7 | 530 | 3 | 520 | 2 |
|  | 11 |  |  |  | Y |  |  | R |  | 58.7 | 42.2 | 520 | 3 | 430 | 2 |
|  | 11 |  |  |  | Y | Y |  | F |  | 29.3 | 20.2 | 360 | 1 | 310 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 49.5 | 56.8 | 470 | 2 | 510 | 2 |
|  | 11 |  |  |  |  |  |  | P |  | 56.8 | 56.8 | 510 | 3 | 510 | 2 |
|  | 11 |  |  |  | Y |  |  | R |  | 53.2 | 27.5 | 490 | 3 | 350 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 38.5 | 38.5 | 410 | 1 | 410 | 1 |
|  | 11 |  |  |  | Y |  |  | F |  | 49.5 | 47.7 | 470 | 2 | 460 | 2 |

## STUDENT ACHIEVEMENT

- Aggregate all individual student data (IPI) to school and district level (SPI/DPI)
- ESSA target determination

> Preliminary SPI (Indicator \#1)
> Sorted by Change from Prior Year

| School | ELA |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | Valid N | Five <br> Year SPI Average | SPI Change from Prior Year | SPI Change from First Year | $18-19$ <br> SPI <br> ESSA <br> Target <br> Met? |
|  |  | 50.0 | 53.3 | 51.3 | 53.4 | 183 | 52.0 | 2.1 | 3.4 | NO |
|  | 53.5 | 54.3 | 53.4 | 53.9 | 55.5 | 9087 | 54.1 | 1.6 | 2.0 | NO |
|  | 41.8 | 43.9 | 41.5 | 38.5 | 39.4 | 218 | 41.0 | 0.9 | -2.4 | NO |
|  | 51.0 | 45.2 | 43.8 | 42.9 | 42.2 | 268 | 45.0 | -0.7 | -8.8 | NO |
|  | 71.4 | 54.1 | 55.1 | 53.2 | 52.5 | 106 | 57.3 | -0.7 | -18.9 | NO |
|  | 46.6 | 42.7 | 41.0 | 39.3 | 38.3 | 198 | 41.6 | -1.0 | -8.3 | NO |


|  | MATH |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| School | 14-15 | 15-16 | 16-17 | 17-18 | 18-19 | Valid N | Five <br> Year SPI Average | Change from Prior Year | Change from First Year | $\begin{array}{\|c\|} \hline \text { 18-19 } \\ \text { SPI } \\ \text { ESSA } \\ \text { Target } \\ \text { Met? } \\ \hline \end{array}$ |
|  |  | 44.0 | 49.7 | 48.0 | 49.3 | 183 | 47.8 | 1.3 | 5.3 | NO |
|  | 44.2 | 46.2 | 46.9 | 47.8 | 48.5 | 9072 | 46.7 | 0.7 | 4.3 | NO |
|  | 50.9 | 47.7 | 48.6 | 46.3 | 45.0 | 106 | 47.7 | -1.3 | -5.9 | NO |
|  | 37.7 | 39.4 | 38.8 | 39.2 | 36.9 | 268 | 38.4 | -2.3 | -0.8 | NO |
|  | 31.7 | 38.5 | 36.6 | 35.8 | 33.4 | 218 | 35.2 | -2.4 | 1.7 | NO |
|  | 30.9 | 36.5 | 35.3 | 35.8 | 32.4 | 198 | 34.2 | -3.4 | 1.5 | NO |

## STUDENT GROWTH

- Other state-wide assessments use student growth in addition to student achievement for accountability, however, because only grade 11 students take the CT-SAT annually, no growth calculations are currently included for accountability purposes
- The College Board's Student-Level Growth Estimates for the SAT Suite of Assessments allowed us the opportunity to mirror other state-wide assessments that measure student growth, that our schools are currently familiar with (Smarter Balanced and LAS Links)


## STUDENT GROWTH

- Student-level growth estimates were received from the College Board in December 2018
- PSAT/SAT growth targets are based on the $50^{\text {th }}$ percentile
- Smarter Balanced growth targets are based on the $60^{\text {th }}$ percentile
- LAS Links growth targets are based on the $60^{\text {th }}$ percentile for oral and the $70^{\text {th }}$ percentile for literacy (with two grade level exceptions)
- The student-level growth estimates were first used retroactively to create growth fargets for fall 2018 testing and then for the ypcoming spring 2019 CT-SAT and fall 2019 PSAT 8/9, PSAT/NMSQT, and SAT
- 2019 CT-SAT growth targets were compared to actual 2019 CTSAT results


## STUDENT GROWTH

## - I determined:

- How much of an increase each student was expected to obtain in both Evidence-Based Reading and Writing (EBRW) and Math - target growth
- If each student met the target growth or not
- How much each student met or missed the target growth by
- What each student's percentage of target achieved (PTA) was
- In other state-wide assessments, Connecticut uses the percentage of target achieved (PTA) as an accountability indicator
- Students are expected to achieve $100 \%$ of their target growth annually
- Range is $0 \%-110 \%$
- What each student's UNADJUSTED percentage of target achieved (PTA) was
- What the student TRULY earned
- $0 \%$ and $110 \%$ caps are lifted
- Range is unlimited - negative numbers and numbers beyond $110 \%$


## SAMPLE CALCULATION

## $40 \%+100 \%+0 \%+110 \%=250 \% / 4=62.5 \%$

## Percentage of Target Achieved (PTA)



## INDIVIDUAL STUDENT DATA - EBRW FALL 17-18 TO FALL 18-19

| A | B | C | D | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \text { GRADE } \\ \text { 18-19 } \end{gathered}$ | $\begin{array}{\|c} \text { PSAT } \\ \text { EBRW } \\ \text { FALL } \\ \text { 17-18 } \end{array}$ | $\begin{array}{\|l} \text { PSAT/ } \\ \text { SAT } \\ \text { EBRW } \\ \text { FALL } \\ 18-19 \end{array}$ | PSAT/ SAT EBRW ACTUAL GROWTH FALL $18-19$ | PSAT/ <br> SAT <br> EBRW <br> EXPECTED <br> SCORE <br> FALL <br> 18-19 | PSAT/ SAT EBRW TARGET GROWTH FALL $18-19$ | $\begin{aligned} & \text { PSAT/ } \\ & \text { SAT } \\ & \text { EBRW } \\ & \text { TARGET } \\ & \text { MET } \\ & \text { FALL } \\ & \text { 18-19 } \end{aligned}$ | PSAT/ SAT EBRW TARGET GROWTH DIFF FALL $18-19$ | PSAT/ <br> SAT <br> EBRW <br> UNADJ <br> PTA <br> FALL <br> 18-19 | PSAT/ <br> SAT <br> EBRW <br> ADJ <br> PTA <br> FALL <br> 18-19 | PSAT/ SAT EBRW EXPECTED SCORE FALL $19-20$ |
| 9 | 350 | 420 | 70 | 380 | 30 | Yes | 40 | 233.3 | 110.0 | 450 |
| 9 | 320 | 340 | 20 | 350 | 30 | No | -10 | 66.7 | 66.7 | 370 |
| 10 | 580 | 560 | -20 | 610 | 30 | No | -50 | -66.7 | 0.0 | 590 |
| 10 | 430 | 490 | 60 | 450 | 20 | Yes | 40 | 300.0 | 110.0 | 520 |
| 11 | 400 | 470 | 70 | 430 | 30 | Yes | 40 | 233.3 | 110.0 | 510 |
| 11 | 380 | 390 | 10 | 420 | 40 | No | -30 | 25.0 | 25.0 | 450 |
| 12 | 510 | 580 | 70 | 540 | 30 | Yes | 40 | 233.3 | 110.0 |  |
| 12 | 370 | 490 | 120 | 430 | 60 | Yes | 60 | 200.0 | 110.0 |  |

$\square$ Actual Scores
Expected Scores

# INDIVIDUAL STUDENT DATA - MATH FALL 17-18 TO FALL 18-19 

| A | B | C | D | E | F | G | H | 1 | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|c} \text { GRADE } \\ 18-19 \end{array}$ | PSAT <br> MATH <br> FALL <br> 17-18 | PSAT/ <br> SAT <br> MATH <br> FALL <br> 18-19 | PSAT/ <br> SAT <br> MATH <br> ACTUAL <br> GROWTH <br> FALL <br> 18-19 | PSAT/ SAT MATH EXPECTED SCORE FALL $18-19$ | PSAT/ <br> SAT <br> MATH <br> TARGET <br> GROWTH <br> FALL <br> 18-19 | PSAT/ SAT MATH TARGET MET FALL $18-19$ | PSAT/ SAT MATH TARGET GROWTH DIFF FALL 18-19 | $\begin{array}{\|c\|} \text { PSAT// } \\ \text { SAT } \\ \text { MATH } \\ \text { UNADJ } \\ \text { PTA } \\ \text { FALL } \\ 18-19 \end{array}$ | PSAT/ <br> SAT <br> MATH <br> ADJ <br> PTA <br> FALL <br> 18-19 | PSAT/ SAT MATH EXPECTED SCORE FALL $19-20$ |
| 9 | 280 | 360 | 80 | 360 | 80 | Yes | 0 | 100.0 | 100.0 | 400 |
| 9 | 280 | 350 | 70 | 360 | 80 | No | -10 | 87.5 | 87.5 | 390 |
| 10 | 420 | 410 | -10 | 440 | 20 | No | -30 | -50.0 | 0.0 | 440 |
| 10 | 480 | 420 | -60 | 500 | 20 | No | -80 | -300.0 | 0.0 | 450 |
| 11 | 330 | 290 | -40 | 400 | 70 | No | -110 | -57.1 | 0.0 | 400 |
| 11 | 390 | 430 | 40 | 430 | 40 | Yes | 0 | 100.0 | 100.0 | 470 |
| 12 | 430 | 520 | 90 | 470 | 40 | Yes | 50 | 225.0 | 110.0 |  |
| 12 | 460 | 360 | -100 | 490 | 30 | No | -130 | -333.3 | 0.0 |  |

$\square$

## INDIVIDUAL STUDENT DATA - EBRW FALL 18-19 TO SPRING 18-19 (CT-SAT)

| A | B | C | D | E | F | G | H | I | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|c} \hline \text { GRADE } \\ \text { 18-19 } \end{array}$ | PSAT EBRW FALL 18-19 | SAT EBRW SPRING 18-19 | SAT EBRW ACTUAL GROWTH SPRING 18-19 | SAT EBRW EXPECTED SCORE SPRING $18-19$ | SAT EBRW TARGET GROWTH SPRING $18-19$ | SAT EBRW TARGET MET SPRING 18-19 | SAT EBRW TARGET GROWTH DIFF SPRING $18-19$ | SAT <br> EBRW <br> UNADJ PTA SPRING 18-19 | $\begin{array}{\|c\|} \hline \text { SAT } \\ \text { EBRW } \\ \text { ADJ } \\ \text { PTA } \\ \text { SPRING } \\ 18-19 \end{array}$ | SAT EBRW EXPECTED SCORE FALL $19-20$ |
| 11 | 530 | 580 | 50 | 550 | 20 | Yes | 30 | 250.0 | 110.0 | 590 |
| 11 | 510 | 530 | 20 | 530 | 20 | Yes | 0 | 100.0 | 100.0 | 540 |
| 11 | 490 | 520 | 30 | 510 | 20 | Yes | 10 | 150.0 | 110.0 | 530 |
| 11 | 340 | 360 | 20 | 400 | 60 | No | -40 | 33.3 | 33.3 | 410 |
| 11 | 490 | 470 | -20 | 510 | 20 | No | -40 | -100.0 | 0.0 | 490 |
| 11 | 530 | 510 | -20 | 550 | 20 | No | -40 | -100.0 | 0.0 | 520 |
| 11 | 540 | 490 | -50 | 560 | 20 | No | -70 | -250.0 | 0.0 | 510 |
| 11 | 530 | 410 | -120 | 550 | 20 | No | -140 | -600.0 | 0.0 | 440 |

$\square$ Expected Scores

# INDIVIDUAL STUDENT DATA - MATH FALL 18-19 TO SPRING 18-19 (CT-SAT) 

| A | B | C | D | E | F | G | H | 1 | J | K |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{\|c} \hline \text { GRADE } \\ \hline 18-19 \end{array}$ | PSAT <br> MATH <br> FALL <br> 18-19 | $\begin{array}{\|c\|} \text { SAT } \\ \text { MATH } \\ \text { SPRING } \\ 18-19 \end{array}$ | SAT <br> MATH ACTUAL GROWTH SPRING 18-19 | SAT MATH EXPECTED SCORE SPRING $18-19$ | $\begin{gathered} \text { SAT } \\ \text { MATH } \\ \text { TARGET } \\ \text { GROWTH } \\ \text { SPRING } \\ 18-19 \end{gathered}$ | $\begin{gathered} \text { SAT } \\ \text { MATH } \\ \text { TARGET } \\ \text { MET } \\ \text { SPRING } \\ 18-19 \end{gathered}$ | SAT <br> MATH <br> TARGET <br> GROWTH <br> DIFF <br> SPRING <br> $18-19$ |  | $\begin{array}{\|c\|} \hline \text { SAT } \\ \text { MATH } \\ \text { ADJ } \\ \text { PTA } \\ \text { SPRING } \\ 18-19 \end{array}$ | SAT MATH EXPECTED SCORE FALL $19-20$ |
| 11 | 390 | 460 | 70 | 420 | 30 | Yes | 40 | 233.3 | 110.0 | 470 |
| 11 | 440 | 520 | 80 | 460 | 20 | Yes | 60 | 400.0 | 110.0 | 530 |
| 11 | 440 | 430 | -10 | 460 | 20 | No | -30 | -50.0 | 0.0 | 450 |
| 11 | 340 | 310 | -30 | 390 | 50 | No | -80 | -60.0 | 0.0 | 380 |
| 11 | 430 | 510 | 80 | 460 | 30 | Yes | 50 | 266.7 | 110.0 | 520 |
| 11 | 490 | 510 | 20 | 510 | 20 | Yes | 0 | 100.0 | 100.0 | 520 |
| 11 | 340 | 350 | 10 | 390 | 50 | No | -40 | 20.0 | 20.0 | 400 |
| 11 | 410 | 410 | 0 | 440 | 30 | No | -30 | 0.0 | 0.0 | 440 |

## STUDENT GROWTH

- Individual student data was aggregated in the same manner as Smarter Balanced and LAS Links growth metrics (data shown below is for fall PSAT to spring CT-SAT)
- Range is 0\%-110\%

|  |  | 2018-2019 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| School | Subject | Number of <br> Matched <br> Students | Growth <br> Rate | Average <br> Percentage <br> of Target <br> Achieved <br> (PTA) |
|  | ELA | 178 | $46.6 \%$ | $57.7 \%$ |
|  | ELA | 103 | $44.7 \%$ | $55.6 \%$ |
|  | ELA | 218 | $36.7 \%$ | $54.2 \%$ |
| DSTRICT | ELA | $\mathbf{8 6 9}$ | $\mathbf{3 5 . 4 \%}$ | $52.1 \%$ |
|  | ELA | 177 | $28.8 \%$ | $51.6 \%$ |
|  | ELA | 177 | $26.0 \%$ | $43.3 \%$ |


|  |  | 2018-2019 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| School | Subject | Number of <br> Matched <br> Students | Growth <br> Rate | Average <br> Percentage <br> of Target <br> Achieved <br> (PTA) |
|  | Math | 103 | $43.7 \%$ | $58.6 \%$ |
|  | Math | 178 | $47.8 \%$ | $57.1 \%$ |
|  | Math | 216 | $38.4 \%$ | $52.8 \%$ |
| DSTRICT | Math | $\mathbf{8 6 5}$ | $35.6 \%$ |  |
|  | Math | 177 | $26.6 \%$ | $49.6 \%$ |
|  | Math | 175 | $25.1 \%$ | $39.7 \%$ |

## STUDENT GROWTH

- Annual targets were determined for each school and the district overall, similar to ESSA growth targets

CT-SAT ELA Percentage of Target
Achieved


CT-SAT Math Percentage of Target
Achieved

## STUDENT GROWTH

## - UNADJUSTED PTA - EBRW

- True performance
- Range is unlimited

|  |  | 2018-2019 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| School | Subject | Number of <br> Matched <br> Students | Growth <br> Rate | Average <br> Percentage <br> of Target <br> Achieved <br> (PTA) |
|  | ELA | 178 | $46.6 \%$ | $57.7 \%$ |
|  | ELA | 103 | $44.7 \%$ | $55.6 \%$ |
|  | ELA | 218 | $36.7 \%$ | $54.2 \%$ |
|  | ELA | 869 | $35.4 \%$ | $52.1 \%$ |
| DISTRICT | ELA | 177 | $28.8 \%$ | $51.6 \%$ |
|  | ELA | 177 | $26.0 \%$ | $43.3 \%$ |


|  |  | 2018-2019 |  |
| :---: | :---: | :---: | :---: |
| School | Subject | Number of <br> Matched <br> Students | Average <br> UNADJ <br> Percentage <br> of Target <br> Achieved <br> (PTA) |
|  | ELA | 178 | $61.4 \%$ |
|  | ELA | 103 | $31.8 \%$ |
|  | ELA | 218 | $42.1 \%$ |
|  | ELA | $\mathbf{8 6 9}$ | $43.1 \%$ |
|  | ELA | 177 | $53.6 \%$ |
|  | ELA | 177 | $25.6 \%$ |

## STUDENT GROWTH

## - UNADJUSTED PTA - Math

- True performance
- Range is unlimited

|  |  | 2018-2019 |  |  |
| :---: | :---: | :---: | :---: | :---: |
| School | Subject | Number of <br> Matched <br> Students | Growth <br> Rate | Average <br> Percentage <br> of Target <br> Achieved <br> (PTA) |
|  | Math | 103 | $43.7 \%$ | $58.6 \%$ |
|  | Math | 178 | $47.8 \%$ | $57.1 \%$ |
|  | Math | 216 | $38.4 \%$ | $52.8 \%$ |
|  | Math | $\mathbf{8 6 5}$ | $\mathbf{3 5 . 6 \%}$ | $\mathbf{4 9 . 6 \%}$ |
| DISTRICT | Math | 177 | $26.6 \%$ | $42.0 \%$ |
|  | Math | 175 | $25.1 \%$ | $39.7 \%$ |


|  |  | 2018-2019 |  |
| :---: | :---: | :---: | :---: |
| School | Subject | Number of <br> Matched <br> Students | Average <br> UNADJ <br> Percentage <br> of Target <br> Achieved <br> (PTA) |
|  | Math | 103 | $73.7 \%$ |
|  | Math | 178 | $62.7 \%$ |
|  | Math | 216 | $35.3 \%$ |
|  | Math |  | $\mathbf{8 6 5}$ |
|  | Math | 177 | $3.2 \%$ |
|  | Math | 175 | $-8.2 \%$ |

## STUDENT GROWTH

- The student-level growth estimates allowed us to make informed decisions on students that may need a little extra instruction to meet the benchmark by the time they participate in SAT
- Developed the 530 club at one school for mathematics
- Forecasted students that would be somewhat below the benchmark based on the student-level growth estimates and how much of the target students are achieving


## NEXT STEPS

- Khan Academy
- Incorporate grade 9 and 10 spring administration for intermittent data (pre/post)
- Monitor and check for increases in the percentage of target achieved for individual students and at the school/district level in future years
- Analyze the impact of mobility and suspensions on PSAT and SAT achievement and growth

