## PHILADELPHIA

Progress Monitoring End of Year Performance Keystones & NOCTI

October 12, 2023



## **High School Preliminary Performance**

<u>**Goal 4:**</u> The percentage of students who are proficient on all three state high school assessments (Algebra 1, Literature, and Biology) by the end of their 11th grade year

**Goal 5:** The percentage of Career and Technical Education (CTE) students who pass an industry standards-based competency assessment by the end of their 12th grade year



## Performance Highlights: High School

#### **Keystone Performance since 2018-19**

- In Literature, Proficiency increased (+6.2) and Below Basic decreased (-7.3)
- In Algebra 1, Proficiency decreased (-6.6) and Below Basic increased (+8.3)
- In **Biology, Proficiency decreased** (-3.6) and **Below Basic decreased** (-5.1)
- The percentage of students **Proficient on all Keystones declined** (-7.7)

#### **CTE Student NOCTI Performance since 2021-22**

• The percentage of CTE students **passing the NOCTI increased (+5.6)** 

#### Circumstances for 11th graders in 2022-23

- 11th graders in 2022-23 were in 8th grade in 2019-20, when schools were closed in March due to the pandemic.
- Students took Algebra 1 in 2020-21 during the fully virtual year and were not able to take the end-of-course Keystone until September 2021.
- The biggest declines in proficiency were seen in Learning Network 1 among the criteria-based schools. Proficiency in LN 4, 13 and Innovation remained low.

# **SY 2022-23** *Preliminary* **Performance Highlights\***

PSSA Assessment	Proficiency Results	Below Basic Results
Grade 3 Reading	+3.2 percentage points	-8 percentage points
Grade 3 - 8 Reading	-0.3 percentage points	-2.8 percentage points
Grade 3 Math	+5.2 percentage points	-6.8 percentage points
Grade 3 - 8 Math	+3.6 percentage points	-4.4 percentage points
Grade 4 and 8 Science	+3.4 percentage points	-2.6 percentage points
Best by 11th grade Keystones <sup>^</sup>	Proficiency Results	Below Basic Results
Literature	+6.2 percentage points	-7.3 percentage points
Algebra 1	-6.6 percentage points	+8.3 percentage points
Biology	-3.6 percentage points	-5.1 percentage points

\*Pending state verification; \*Keystone results compare 2022-23 to 2018-19.

Where Have We Been?



## Beginning in 2021, we made the following changes to High School and Career and Technical Education:

Expanded 9th Grade Success Networks

CTE Audit and Strategy Development

Expanded and enhanced instruction approaches

Expanded and enhanced school-wide climate approaches

Re-envisioned professional development for teachers and leaders

Established Universal Screeners and provided more space and time for collaboration and using data

Where Are We Now?

# Goal 4: Keystones, Best by 11th Grade

# Students take Keystone courses and exams at different points in high school; their performance is solidified in 11th grade, when their "best" results are tallied

Students typically take Algebra in 9th grade, and Literature & Biology in 10th grade. However, students may take courses earlier or later, and can retake the Keystones when they choose.

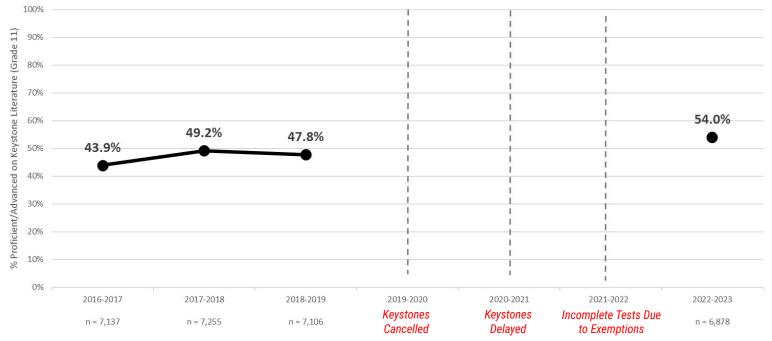
#### Let's look at three students who were in 11th grade in 2022-23:

	Student A		Student B		Student C	
	Courses Taken	Keystones Taken	Courses Taken	Keystones Taken	Courses Taken	Keystones Taken
2019-20 (8th grade)		No PSSAs or Keystones (Math, ELA, & Science) due to Covid-19				
2020-21 (9th grade)	Algebra	Postponed until September 2021	Algebra & Biology	Postponed until September 2021	Algebra	Postponed until September 2021
2021-22 (10th grade)	Literature & Biology	Algebra Literature Biology	Literature	Algebra Biology Literature	Biology	Algebra Biology
2022-23 (11th grade)	-	Biology (Retake)	-	Biology (Retake)	Literature	Algebra (Retake) Literature

## **Goal 4** Keystone Literature Performance by 11th Grade Cohort

The percentage of students who scored **Proficient or Advanced on the Keystone Literature** by 11th grade increased from 47.8% in 2018-19 to 54.0% in 2022-23 (+6.2 percentage points).

Keystone Literature Proficiency Rate (Best by 11th)



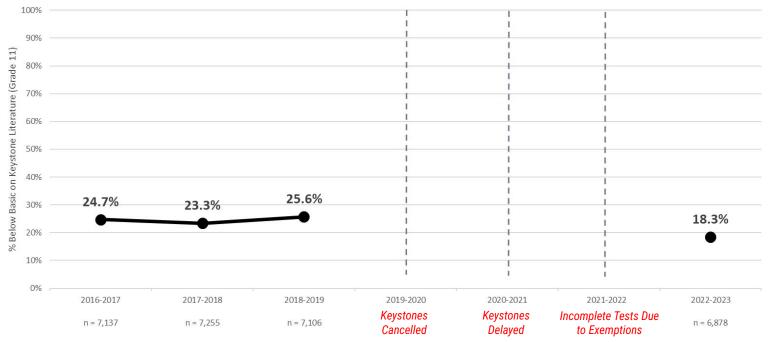
The "n" count for each year indicates how many total students took the Keystone Literature exam.

#### Data includes all District schools except PVA and Widener

## **Goal 4** Keystone Literature Performance by 11th Grade Cohort

The percentage of 11th grade students who scored **Below Basic on the Keystone Literature** by 11th grade decreased from 25.6% in 2018-19 to 18.3% in 2022-23 (-7.3 percentage points).

Keystone Literature Below Basic Rate (Best by 11th)



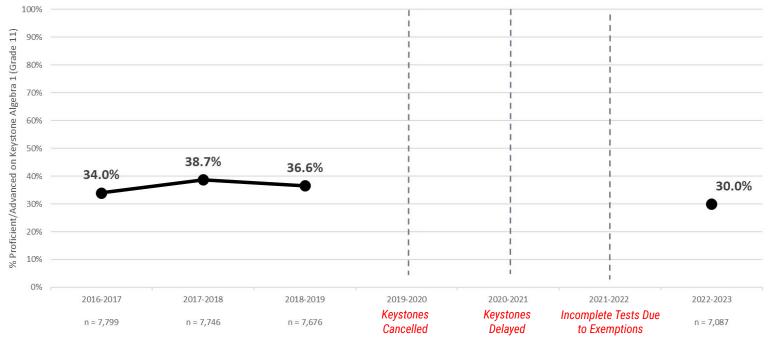
The "n" count for each year indicates how many total students took the Keystone Literature exam.

#### Data includes all District schools except PVA and Widener

## **Goal 4** Keystone Algebra 1 Performance by 11th Grade Cohort

The percentage of 11th grade students who scored **Proficient or Advanced on the Keystone Algebra** by 11th grade declined from 36.6% in 2018-19 to 30.0% in 2022-23 (-6.6 percentage points).

Keystone Algebra 1 Proficiency Rate (Best by 11th)



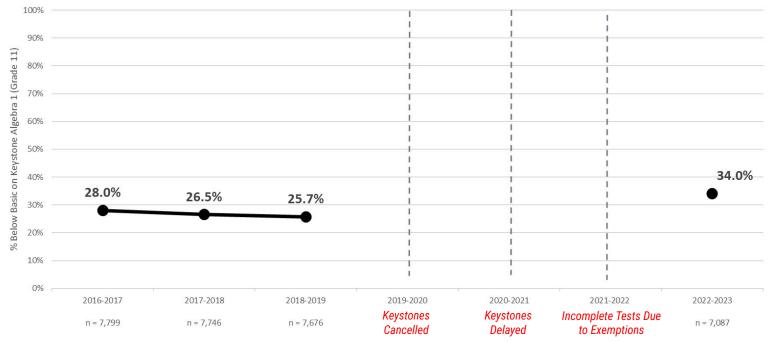
The "n" count for each year indicates how many total students took the Keystone Algebra 1 exam.

#### Data includes all District schools except PVA and Widener

## **Goal 4** Keystone Algebra 1 Performance by 11th Grade Cohort

The percentage of 11th grade students who scored **Below Basic on the Keystone Algebra** by 11th grade increased from 25.7% in 2018-19 to 34.0% in 2022-23 (**+8.3 percentage points**).

Keystone Algebra 1 Below Basic Rate (Best by 11th)



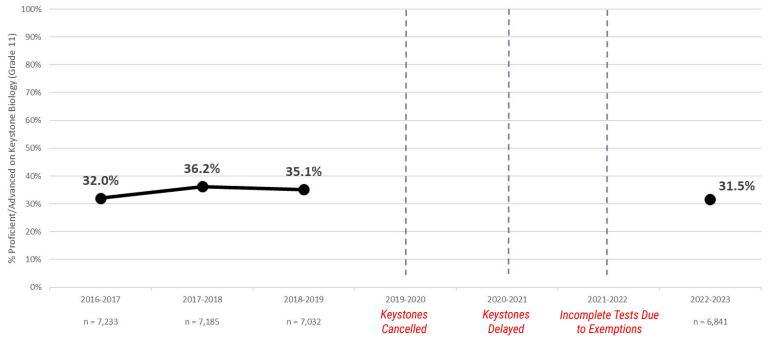
The "n" count for each year indicates how many total students took the Keystone Algebra 1 exam.

#### Data includes all District schools except PVA and Widener

## **Goal 4** Keystone Biology Performance by 11th Grade Cohort

The percentage of 11th grade students who scored **Proficient or Advanced on the Keystone Biology** by 11th grade declined from 35.1% in 2018-19 to 31.5% in 2022-23 (-3.6 percentage points).

Keystone Biology Proficiency Rate (Best by 11th)



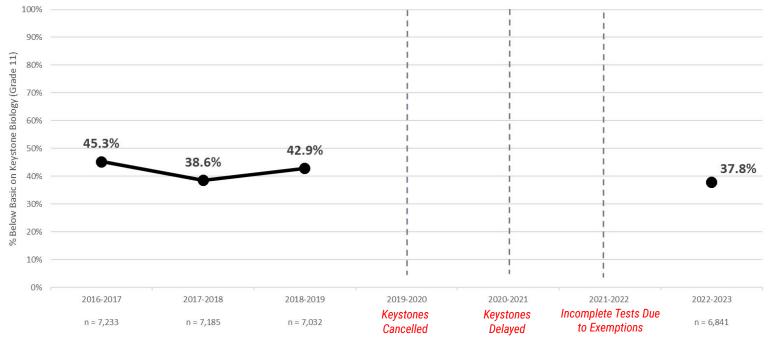
The "n" count for each year indicates how many total students took the Keystone Biology exam.

#### Data includes all District schools except PVA and Widener

## **Goal 4** Keystone Biology Performance by 11th Grade Cohort

The percentage of 11th grade students who scored **Below Basic on the Keystone Biology** by 11th grade decreased from 42.9% in 2018-19 to 37.8% in 2022-23 (-5.1 percentage points).

Keystone Biology Below Basic Rate (Best by 11th)



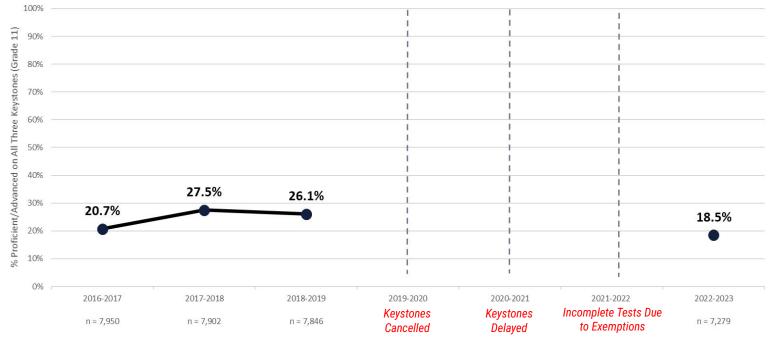
The "n" count for each year indicates how many total students took the Keystone Biology exam.

#### Data includes all District schools except PVA and Widener

## **Goal 4** Keystone - All Subjects Best by 11th

The percentage of 11th grade students who **achieved proficiency on all three Keystone exams** (Literature, Algebra 1, and Biology) by 11th grade decreased from 26.1% in 2018-19 to 18.5% in 2022-23 (-7.7 percentage points).

#### Keystone Proficiency - All Three Keystones (Best by 11th)



The "n" count for each year indicates how many total students took all three Keystone exams.

#### Data includes all District schools except PVA and Widener

## Changes in Keystone performance from 2018-19 to 2022-23 by Student Group

	Lite	rature	Algebra		Biology	
	Prof/Adv	Below Basic	Prof/Adv	Below Basic	Prof/Adv	Below Basic
Black/African American	1	Ļ	Ļ	1	Ļ	Ļ
Hispanic/Latino	1	Ļ	Ļ	1		Ļ
White	1	Ļ	Ļ	1	Ļ	Ļ
Asian	1	Ļ	Ļ	1	Ļ	Ļ
Multiracial	1	Ļ	Ļ	1	Ļ	Ļ
English Learners	1	Ļ	1	1	1	Ļ
Non English Learners	1	Ļ	Ļ	1	Ļ	Ļ
Special Education	Ļ	Ļ		1	Ļ	Ļ
Non-Special Education	1	Ļ	Ļ	1	Ļ	Ļ







# Particular challenges in Algebra for high schools students

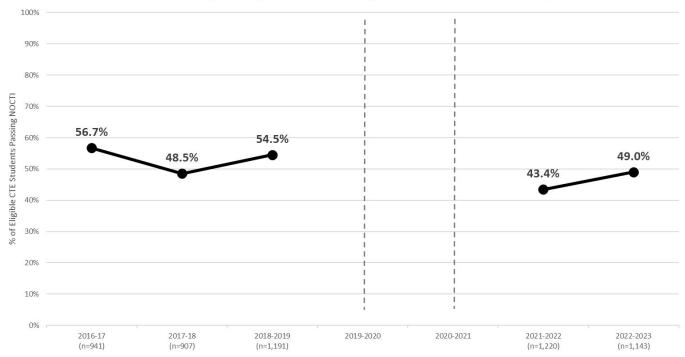
- Math proficiency is based on learning a series of skills at each grade that build on each other but are unique.
- Literature proficiency relies on a deepening of the same skills (spiraling) that were already introduced in earlier grades.
- Biology performance is influenced by literacy, and to a certain extent by math skills.

Goal 5: NOCTI

## Goal 5 NOCTI Grade 12

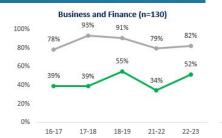
The percentage of 12th Grade on-level CTE students who **scored Competent or Advanced on the NOCTI** increased, (**+5.6 percentage points**), going from 43.4% in 2021-22 to 49.0% in 2022-23.

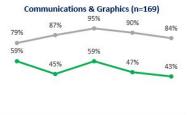
NOCTI Competent/Advanced Rate (12th Grade CTE Students)



## Goal 5 NOCTI Grade 12

# The percentage of 12th grade CTE students who participated and the percentage who scored Competent or Advanced by CTE Cluster





18-19

21-22

22-23

16-17

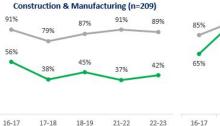
17-18

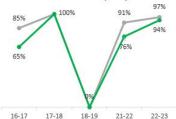
17-18

17-18

16-17

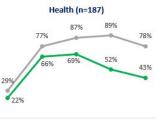
16-17





Education (n=32)





18-19

21-22

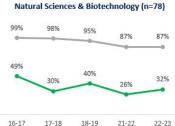
22-23



18-19

21-22

22-23



Personal Care (n=46) Transportation (n=63) 97% 97% 92% 85% 85% 100% 83% 81% 78% 82% 72% 80% 60% 60% 53% 50% 60% 50% 47% 38% 37% 40% 20% 0% 16-17 17-18 18-19 21-22 22-23 16-17 17-18 18-19 21-22 22-23

Notes: 2019-20 and 2020-21 are omitted from the charts; (n=) indicates total number of eligible CTE students in each cluster in 2022-23.

## Goal 5 NOCTI Grade 12

## **NOCTI** participation and performance by student subgroup

Student Group	# Eligible CTE Students	% Participating	% Competent or Advanced
White	123	88.6%	77.2%
Asian	40	95.0%	60.0%
Multi-Racial/ Other	40	87.5%	60.0%
Black/African American	616	84.7%	45.3%
Hispanic/ Latino	324	79.3%	42.6%
Male	575	84.0%	49.2%
Female	563	84.0%	48.8%

Student Group	# Eligible CTE Students	% Participating	% Competent or Advanced
Does not have IEP	1,061	84.8%	50.3%
Has IEP	82	74.4%	31.7%
Former ELs	73	91.3%	67.1%
Never ELs	934	83.7%	49.7%
Current ELs	136	82.4%	34.6%

# Where Are We Going?



## **Beginning in 2021, we focused here:**

## From 2023-24 forward, we will expand our efforts:

Expanded 9th Grade Success Networks	S
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CTE Audit and Strategy Development

Expanded and enhanced instruction approaches

Expanded and enhanced school-wide climate approaches

Re-envisioned professional development for teachers and leaders

Established Universal Screeners and provided more space and time for collaboration and using data

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Increase number of schools participating in the Success Network each year through 2027-28

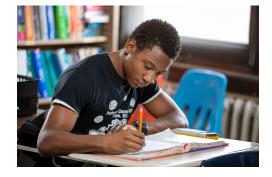
Act on CTE audit results from 5 CTE Comprehensive schools; Finalize audit for remaining CTE programs

Establish clear coherence between skills at different grade levels and how they build upon each other; Create math pathways and expand advanced course offerings to lead into 8th grade Algebra

Audit and Improve School Climate Programs; Expand Safe Paths Program; Increase School Safety Officers

Provide wraparound services to teachers with emergency certifications; Continue right level of coaching and supports for all teachers

Supporting schools with implementing Professional Learning Communities and school-wide problem solving meetings; Continue monitoring Universal Screener data







# Accelerate Philly: Actions 2023-24

#### Recruit, onboard, and support teachers and principals

- **3.9** Provide more support to teachers in the areas of content knowledge, student engagement, and instructional practices
- **4.3** Create recommendations to address long-term District staffing needs
- **4.5** Recruit more Black and Latino male teachers and principals
- **4.7** Expand "Grow-Your-Own" programs for aspiring teachers and leaders
- **5.3** Streamline onboarding process to improve hiring timelines

#### **High Quality Core Instructional Resources**

• **3.2** Initial implementation of new core instructional resources for math

#### Improve School Safety & Climate

- **1.5** Expand Safe Path Program to 18 high schools
- **1.7** Identify, audit, and improve school climate programs

#### **Optimizing Learning Opportunities**

- **3.10** Establish baseline standards for which courses, programs, and academy models will be offered in all schools
- 3.13 Expand 9th Grade On-Track Success Networks



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