SUPERINTENDENT'S **PROPOSED BUDGET**

BUDGET WORK SESSION #4

March 21, 2023

1

Agenda

- Welcome and Introductions
- Revenue and Spring Staffing Updates (6:30 p.m. – 6:45 p.m.)
- Enrollment Projections Review (6:45 p.m. – 7:15 p.m.)
- Other Topics (7:15 p.m. – 7:30 p.m.)
  - PAPER update
- School Board proposed changes (7:30 p.m. – 8:30 p.m.)

2

2

Revenue and Spring Enrollment and Staffing Updates

3

Spring Enrollment and Staffing Update

	Amount ($ in millions)	Positions (FTE)
Spring Enrollment Update		
Spring update placeholder	*($800,000)*	
Elementary changes (3.0 FTE Special Ed; 3.90 FTE Non-special Ed)	*$650,177*	*6.90*
Secondary changes (13.0 FTE Special Ed; (6.45) FTE Non-special Ed)	*$311,255*	*6.55*
Other adjustments		
Math coach – overbudgeted 0.5 FTE in error	*($52,272)*	*(0.50)*
Student Services Coordinator – convert 0.6 T-scale to 0.5 P-scale	*$0*	*(0.10)*
ACHS Librarian (per SOQ; previously funded from teacher allocation)	*$104,543*	*1.00*
TDM Specialist	*$104,543*	*1.00*
Eliminate FTEs for frozen positions from FY22 and FY23	*$0*	*(9.00)*
TOTAL	**$318,247**	**5.85**

4

4

Superintendent's Revised Proposed FY 2024 Budget

	Amount ($ in millions)	Positions (FTE)
Total Revenues – Superintendent's Proposed	**$803,286,133**	
Additional Funds from Future Budget Years Reserve	$483,047	
Total Revenues – Superintendent's Revised Proposed	**$803,769,180**	
Total Expenditures – Superintendent's Proposed	**$803,286,133**	**5,244.25**
Spring Enrollment and Staffing Update	$318,247	5.85
Educational Leadership Program with GMU	$164,800	N/A
Total Expenditures – Superintendent's Revised Proposed	**$803,769,180**	**5,250.10**
Remaining Surplus/(Shortfall)	**$0**	

5

5

Reserves

RESERVE	Balance as of May 12, 2022	Replenishment from FY22 Closeout	Balance After Replenishment	Used in Supt's FY24 Proposed	Used in Supt's FY24 Revised Proposed	Balance After FY24 Budget
VRS	$1,047,239		$1,047,239			$1,047,239
Debt Service	$1,255,490	$4,641,850	$5,897,340	($2,512,330)		$3,385,010
Future Budget Years	$24,567,631	$6,847,989	$31,415,620	($17,584,554)	($483,047)	$13,348,019
Compensation	$123,000	$21,000,000	$21,123,000	($21,123,000)		$0
Separation Pay	$2,000,000		$2,000,000			$2,000,000
Health Care	$1,000,000		$1,000,000			$1,000,000
Total	**$29,993,360**	**$32,489,839**	**$62,483,199**	**($41,219,884)**	**($483,047)**	**$20,780,268**

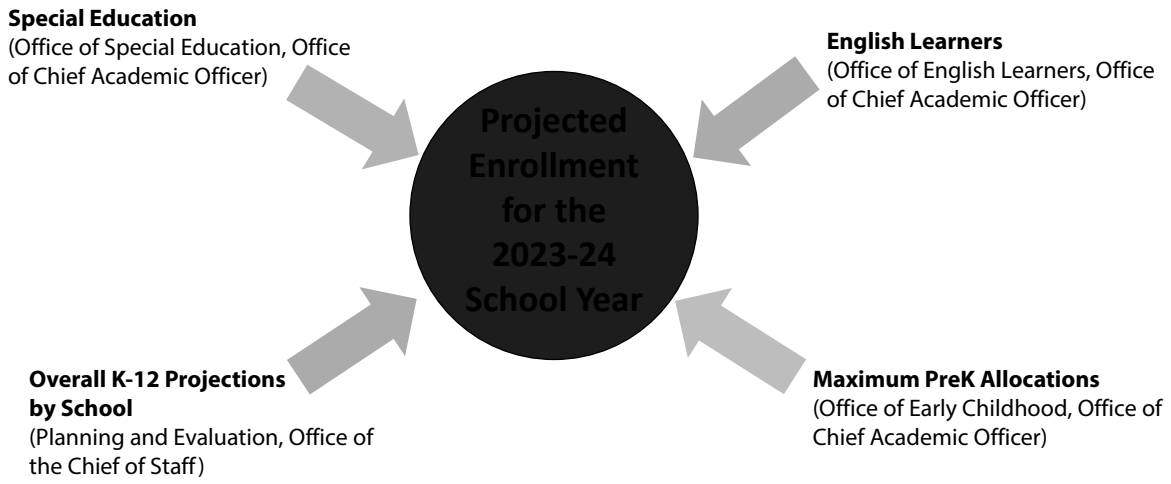
6

6

Enrollment Projections Review

7

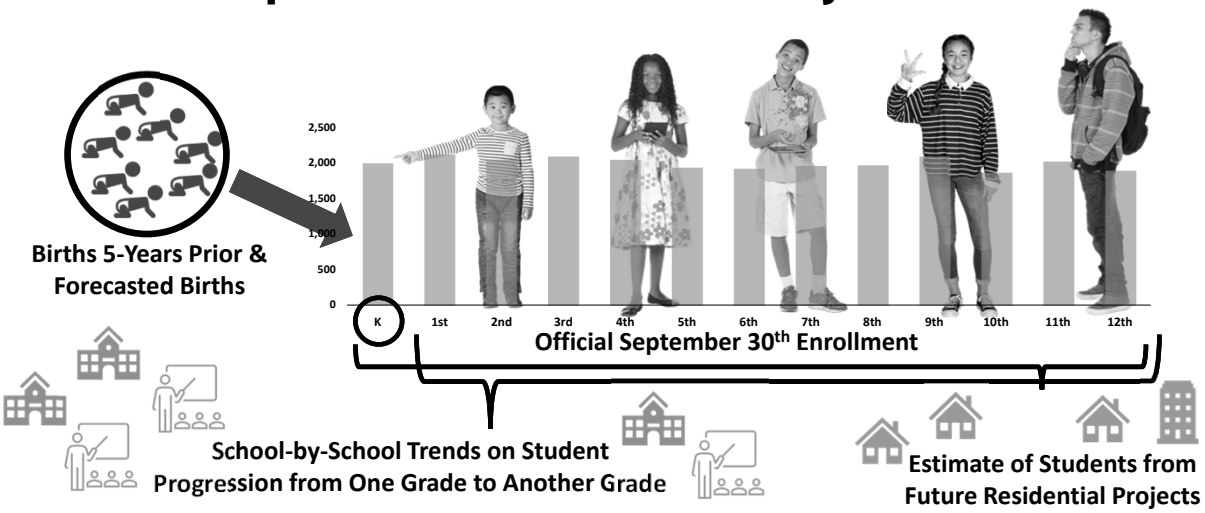
Sources of FY 2024 Projected Enrollment for Staffing



8

8

Components of Enrollment Projections



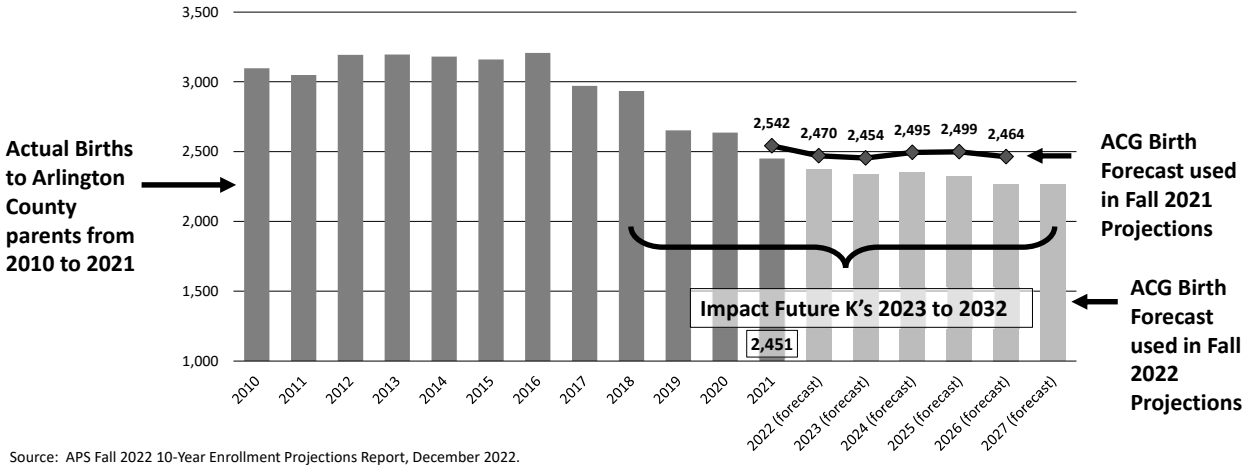
(1) Official September 30th Enrollment is the "base" for projections | (2) Kindergarten projections rely on birth trends | (3) Gr 1 to 12 projections rely on school by school grade progression trends | (4) Gr K to 12 includes students estimated to come from future housing

9

9

Births in Projections: Trends and Forecasts

- Actual births to Arlington County parents have been declining since 2017
- Arlington Co. Govt. (ACG) revised their 2022 birth forecast; it is now lower than the 2021 births forecast
- Births trends impact enrollment projections; declining births will reduce enrollment in long-term projections



Source: APS Fall 2022 10-Year Enrollment Projections Report, December 2022.

10

10

Births in Projections: Birth to Kindergarten Ratios

- **Birth-to-kindergarten ratio trends are calculated for every neighborhood school**
- **Table below includes system-wide birth-to-kindergarten ratios for illustrative purposes only**

Birth Year	Resident Births	School Year Entering Grade K	Actual APS Grade K Enrollment	Birth to Kindergarten Ratio (Capture Rate)
2006	2,561	2011-12	1,968	0.768
2007	2,778	2012-13	2,179	0.784
2008	2,924	2013-14	2,139	0.732
2009	2,935	2014-15	2,196	0.748
2010	3,097	2015-16	2,152	0.695
2011	3,049	2016-17	2,127	0.698
2012	3,193	2017-18	2,253	0.706
2013	3,195	2018-19	2,293	0.718
2014	3,181	2019-20	2,231	0.701
2015	**3,160**	**2020-21**	**1,966**	**0.622**
2016	**3,207**	**2021-22**	**1,998**	**0.623**
2017	**2,971**	**2022-23**	**2,006**	**0.675**
		3-year average pre-pandemic 2017-18 to 2019-20		*0.708* ←
		3-year average 2020-21 to 2022-23		***0.640*** ←

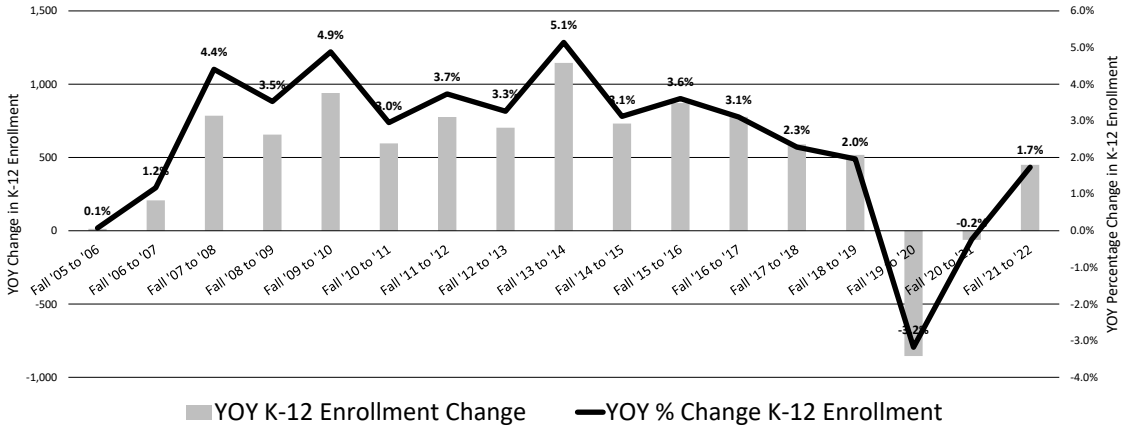
Source: APS Fall 2022 10-Year Enrollment Projections Report, December 2022.

11

11

Sept. 30 Enrollment: K-12 Enrollment Growth

The rate of Gr K-12 enrollment growth was slowing before the pandemic



Interpreting annual growth rates from the Community Facilities Study:

- 2%+ indicates a high growth rate
- 1-2% indicates a medium growth
- 0-1% indicates a low growth rate

12

12

Sept. 30 Enrollment: Grade Progression Factors

- **Comparing Sept. 30, 2021 and 2022 student counts by grades: Seven (7) grades had notable year-over-year changes in enrollment trend**
- **These changes in trend affect Cohort Transition Rates* used to graduate students from one grade to another grade in the projections**

Cohort transition rates:

	K to 1	1 to 2	2 to 3	3 to 4	4 to 5	5 to 6	6 to 7	7 to 8	8 to 9	9 to 10	10 to 11	11 to 12
10 to 11	1.007	0.983	1.010	1.006	0.988	0.985	0.996	1.005	1.065	1.001	0.988	1.002
11 to 12	0.992	0.986	0.980	0.985	0.986	0.985	1.008	1.001	1.100	1.014	1.012	1.004
12 to 13	1.001	0.991	0.986	0.979	0.983	0.982	0.997	1.015	1.067	1.029	0.975	0.976
13 to 14	1.018	1.004	0.993	1.019	1.012	0.995	1.007	1.019	1.105	1.055	0.988	1.008
14 to 15	1.004	0.998	0.993	0.981	0.990	0.988	0.994	1.008	1.083	1.004	0.978	1.016
15 to 16	1.031	0.988	1.011	0.996	1.011	0.991	1.011	0.983	1.099	1.006	1.000	1.011
16 to 17	1.019	0.992	1.011	0.995	0.999	0.985	1.008	0.991	1.049	0.996	1.015	0.990
17 to 18	1.007	0.990	0.994	0.987	1.002	0.980	0.993	0.993	1.020	1.030	0.980	0.994
18 to 19	1.012	1.000	0.999	0.981	0.992	0.974	0.994	1.006	1.060	1.016	0.994	1.013
19 to 20	**0.941**	**0.939**	**0.933**	**0.941**	**0.952**	**0.940**	**0.939**	**0.964**	**1.005**	**0.976**	**0.977**	**1.007**
20 to 21	**1.079**	**0.977**	**0.961**	**0.967**	**0.961**	**0.941**	**0.969**	**0.983**	**1.031**	**0.990**	**0.996**	**1.020**
21 to 22	**1.071**	**1.009**	**0.999**	**1.000**	**1.002**	**0.980**	**1.000**	**1.012**	**1.039**	**1.024**	**1.006**	**1.027**

Emphasize rates that reversed course and are now at or above 1.0 since the 2019 to 2020 period

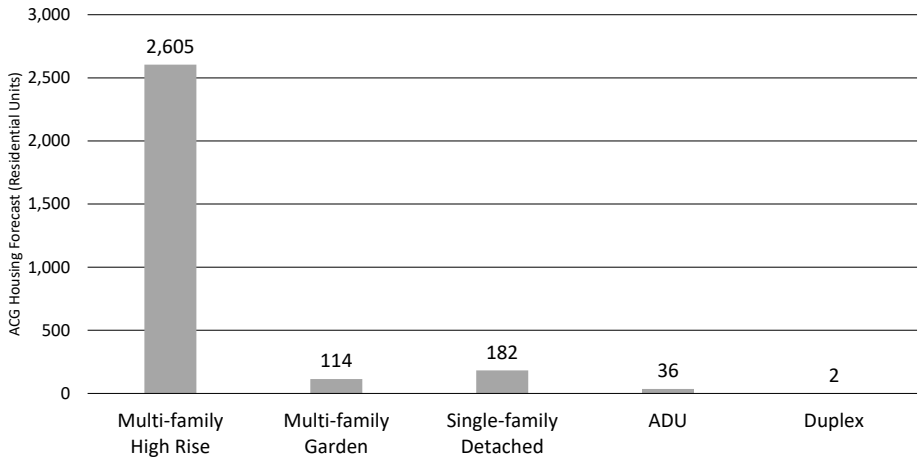
* Rate calculated by dividing the number of students in a particular cohort (i.e., grade) by the number of students from the previous cohort in the previous school year

13

13

Housing Forecast

- **ACG's October 2022 Housing Unit Forecast is included in the 2023-24 School Year Projections**
- **The housing unit forecast is incorporated into the projections by attendance zone**
- **Table below includes overall housing forecast for illustrative purposes only**



Source: Arlington County Government, Annual Housing Unit Forecast, October 2022.

14

14

Comparison of Actual Sept. 30, 2022, Enrollment to Projected Fall 2023 Enrollment

School Level	Actual Sept. 30, 2022	Projections Fall 2023	Change ('22 to '23)	% Change
Elementary	12,483	12,720	237	1.9%
Middle	5,810	5,870	60	1.0%
High	8,146	8,339	193	2.4%
Sub Total (K-12)	*26,439*	*26,929*	*490*	*1.9%*
PreK *	1,016	1,236	220	21.7%
Total (PreK-12)	*27,455*	*28,165*	*710*	*2.6%*

* PreK enrollment for 2023 is not projected. PreK represents the maximum number of PreK seat allocations from the Office of Early Childhood. It is included for 2023-24 for budget and capacity planning.

15

15

Projections Accuracy

	Accuracy - *Actual Sept. 30 Enrollment / Projected Enroll. Prior Fall*					
	Fall 2017	Fall 2018	Fall 2019	Fall 2020	Fall 2021*	Fall 2022
Elementary (K-5)	101%	99%	99%	91%	87%	101%
Middle School (6-8)	99%	99%	99%	94%	88%	101%
High School (9-12)	97%	98%	100%	97%	94%	100%
*Secondary (not projected) ** *	120%	101%	98%	80%	392%	112%
K-12 Total	**100%**	**99%**	**99%**	**93%**	**92%**	**101%**
*PreK (not projected) *** *	88%	80%	90%	67%	73%	80%

* Includes actual virtual learning student counts which were not projected the prior Fall

** Includes E.K. Shriver, Arlington Community, Langston, New Directions Programs. Actual Virtual Learning enrollment is included only in Fall 2021.

*** Compares the Spring Update to Projections (usually March) to actual Sept. 30 enrollment.

Below 100% indicates over-projection
Above 100% indicates under-projection

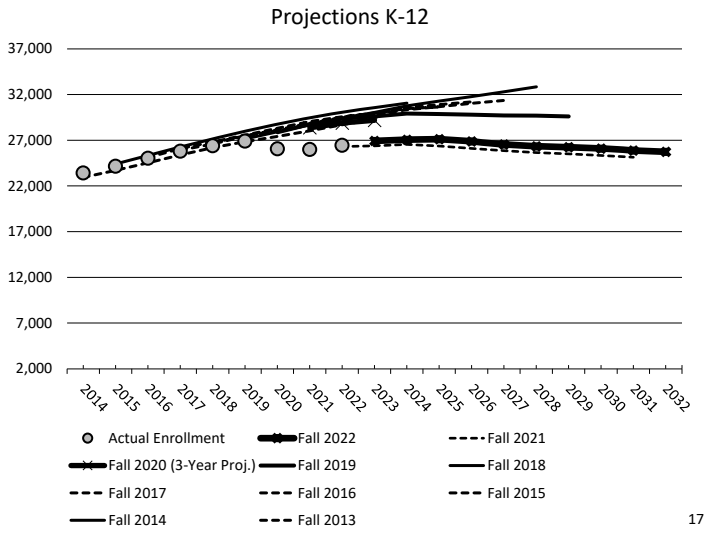
Note: School-by-school projections accuracy is included in the Fall 2022 10-Year Enrollment Projections Report in Attachment E.

16

16

10-Year Projections in Context

- The Fall 2022 projections anticipate more modest growth compared to prior projections

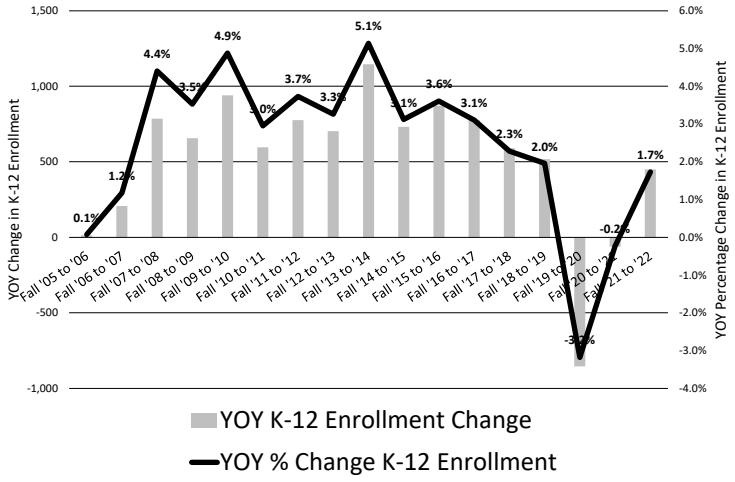


17

17

Fall 2023, K-12 Projections in Context

- The long-term impacts from the COVID-19 Pandemic are still uncertain
- Additional Sept. 30 enrollment data is needed to provide more direction on post-pandemic trends
- The accuracy of the projections might be impacted by this uncertainty



Interpreting annual growth rates from the Community Facilities Study:

- 2%+ indicates a high growth rate
- 1-2% indicates a medium growth
- 0-1% indicates a low growth rate

18

18

Paper Update

19

Budget Work Session
Virtual Tutoring Services

Dr. Gerald Mann, Jr. , Chief Academic Officer
Sarah Putnam, Executive Director of Curriculum & Instruction

20

Background

Student Success

Funds were approved in the School Board's FY23 budget for virtual tutoring services.

Throughout the 2022-23 school year APS has used *Paper* to provide virtual on-demand academic tutoring support for all students in Grades 6 –12. The service was offered at no charge to students and families.

Students receive unlimited 24/7 one-on-one support with assignments, writing feedback and studying support for all subjects, delivered by a live tutor through *Paper's* platform.

All Paper tutors are employees of the company who are trained in the Socratic teaching method to ensure consistency and high-quality service to every student.

21

21

How does Paper support students?

Building advanced skills and encouraging self-advocacy

- Individualized homework help
- Communication skills
- Problem solving
- Multi-step word problems
- Strengthen writing skills
- Reading comprehension
- Study skills and test-taking practice
- Digital citizenship
- Normalizes asking for help

22

22

Implementation of Paper in APS

- Launched during August pre-service week with all teachers of Grades 6-12
- Social Media campaign with School and Community Relations
- Regular communication with teachers to promote use with students
- Parent/guardian engagement at Back-to-School nights for Middle School & High School
- Intentional outreach to staff groups:
  - Instructional Lead Teachers
  - Directors of Counseling
  - Instructional Technology Coordinators
  - Student Support Coordinators
  - Bilingual Family Specialists
- Engagement with community stakeholders:
  - Advisory Council of Teaching and Learning
  - County Council of PTAs

23

23

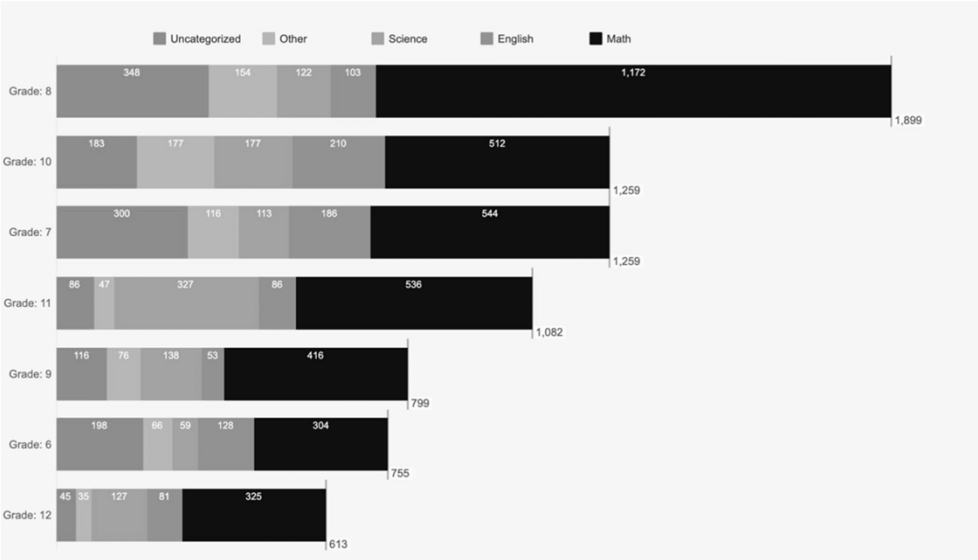
Paper Usage by APS Secondary Students

- 23% of APS students in Grades 6 - 12 have engaged with *Paper*.
  - Middle School: 28% of students in Grades 6 - 8
  - High School: 19% of students in Grades 9 - 12
- Usage is defined by engagement in a “Learning Activity.”
- “Learning Activity” is defined as a “Live Help” session or a submission to “Review Center.”
- Average “Live Help” session is 30 minutes with 1:1 support

24

24

Grade Level Paper Usage: Year-to-Date

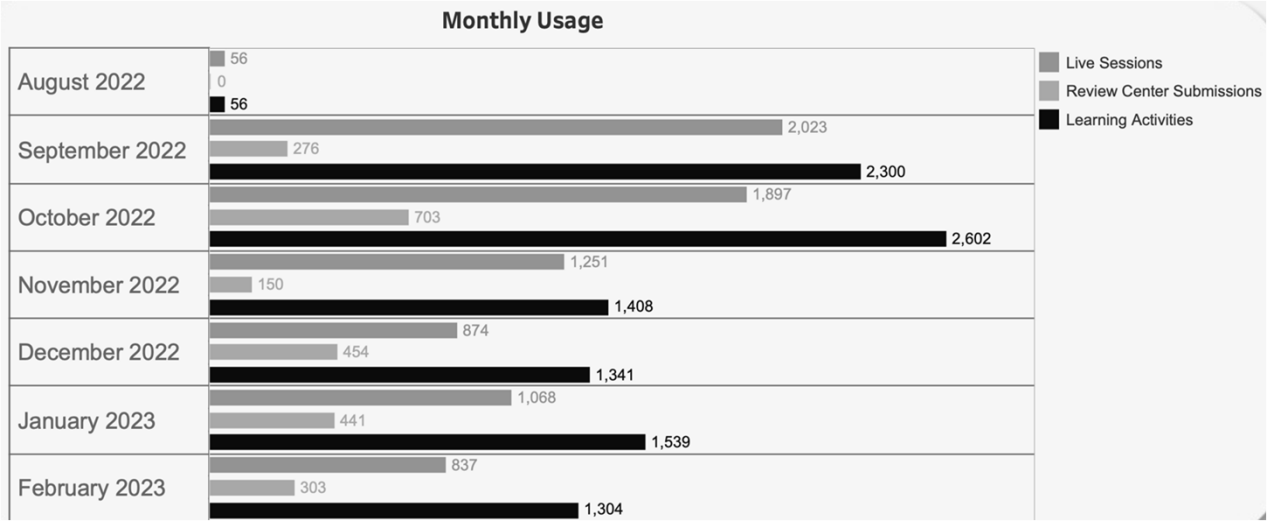


7,666 Live Sessions by Grade Level and Content Area

25

25

Monthly Usage (August 2022 – February 2023)



26

26

Paper Participation

Proportionality in Paper Participation by Demographic				
Demographic	N	% Paper Participants	% Enrollment Secondary	Proportionality Index
Asian	303	9.5%	8.0%	1.2
Black	347	10.9%	10.5%	1.0
Hispanic	753	23.7%	30.9%	0.8
Other	258	8.1%	7.8%	1.0
White	1,518	47.8%	42.8%	1.1
Economically Disadvantaged	866	27.2%	30.7%	0.9
English Learner	295	9.3%	15.2%	0.6
Students with Disabilities	364	11.5%	16.3%	0.7
Gifted Identified	1,395	43.9%	37.3%	1.2

27

27

Budget Considerations

Student Success

Current Contract Details:

- The 12-month contract with *Paper* provides access from August 29, 2022 – August 20, 2023.
- Total Contract Cost: $602,715
  - Monthly Price/student: $3.79
  - Annual Price/student: $45.48
- While the cost per student is fixed, after examining the actual usage of *Paper,* the cost per participant was approximately $190/student.

28

28

Options for Future Use

- The FY 2024 budget does not include funding to continue *Paper* next year
- To continue virtual tutoring services in FY 2024, we provide the following options for consideration:
  - Continue implementation across all middle and high school sites for the 2023-24 school year to increase usage and monitor impact (cost: TBD)
  - Modify licenses to account for students in Grades 7-10 only (cost: TBD)
  - Establish a new contract with another vendor (cost: TBD)

29

29

Budget Work Session
Virtual Tutoring Services

Dr. Gerald Mann, Jr. , Chief Academic Officer
Sarah Putnam, Exec. Director of Curriculum & Instruction

30

School Board Proposed Budget Discussion

31

Future Budget Work Session Agendas

32

Future Budget Work Session Agendas
Budget Work Session #5

April 18, 2023 (6:30 p.m. – 8:30 p.m.)*

- Discussion with Budget Advisory Council (6:30 p.m. – 7:30 p.m.)
- Revenue Updates (7:00 p.m. – 7:15 p.m.)
- Other Topics (as needed) (7:15 p.m. – 8:30 p.m.)

**Meeting may start at 5:30 p.m. in the event a closed meeting does not precede the work session.*

33

33

Future Budget Work Session Agendas
Budget Work Session #6

May 2, 2023 (6:30 p.m. – 8:30 p.m.)*

- School Board proposed changes

**Meeting may start at 5:30 p.m. in the event a closed meeting does not precede the work session.*

34

34

FY 2024 Budget Calendar

35

FY 2024 Budget Calendar

~~Feb 23:~~ ~~Superintendent's Proposed FY 2024 Budget~~
~~Feb 23:~~ ~~Work Session #1~~
~~Mar 7:~~ ~~Work Session #2~~
~~Mar 14:~~ ~~Work Session #3~~
~~Mar 21:~~ ~~Work Session #4~~
Mar 23: *Public Hearing on Superintendent's Proposed Budget*
Mar 30: School Board's Proposed FY 2024 Budget (Action)
Mar 31: School Board's Budget Presentation to County Board
Apr 18: Work Session #5 (with Budget Advisory Council)
Apr 25: *Public Hearing on School Board's Proposed Budget*
May 2: Work Session #6
May 11: School Board's Adopted FY 2024 Budget

36

36

SUPERINTENDENT'S
PROPOSED BUDGET

BUDGET WORK SESSION #4

March 21, 2023

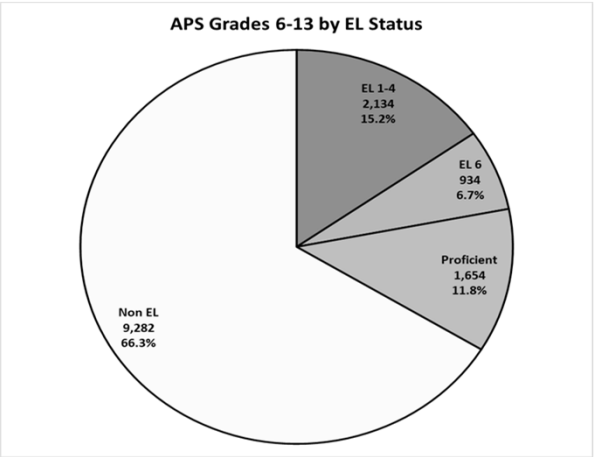
37

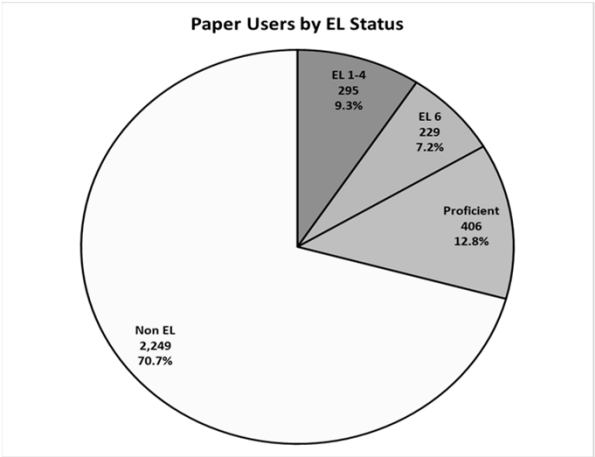
APPENDIX –
VIRTUAL TUTORING SERVICES

38

38

English Learners

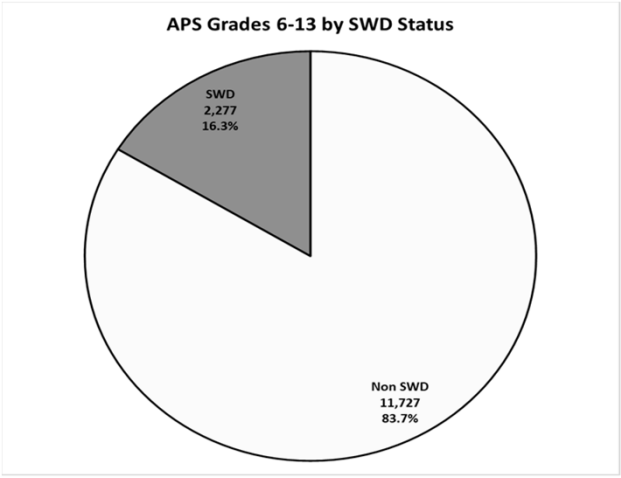


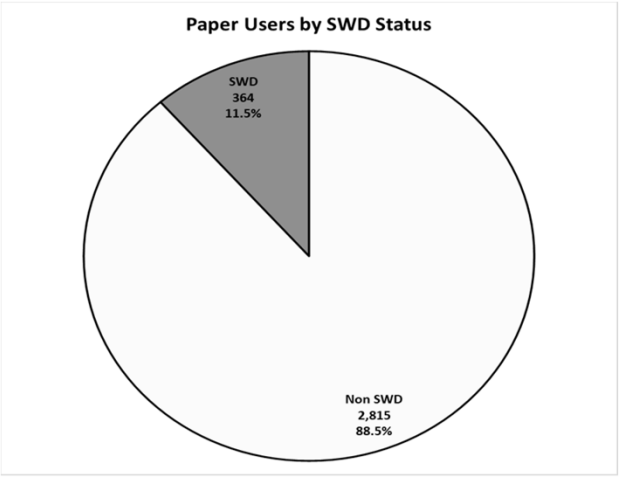


39

39

Students with Disabilities

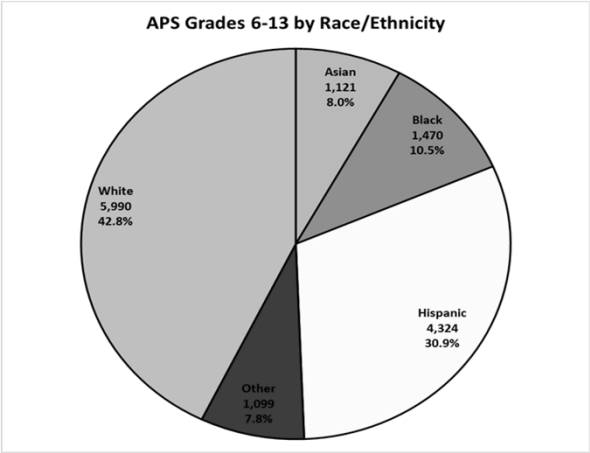


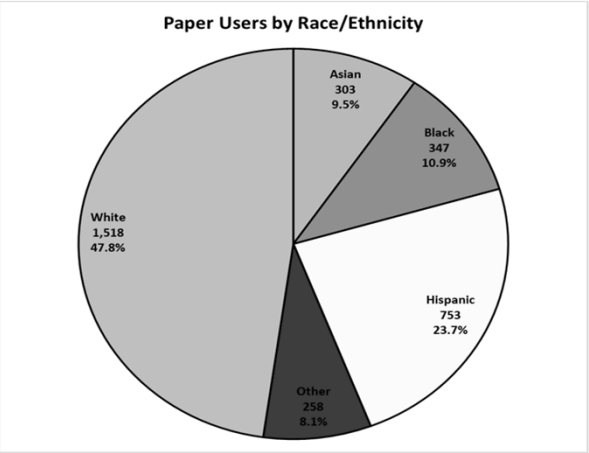


40

40

Race/Ethnicity

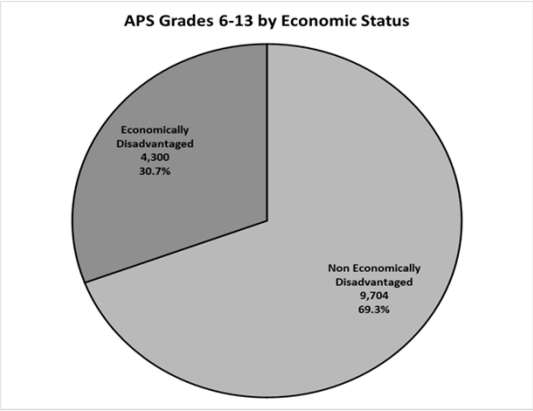


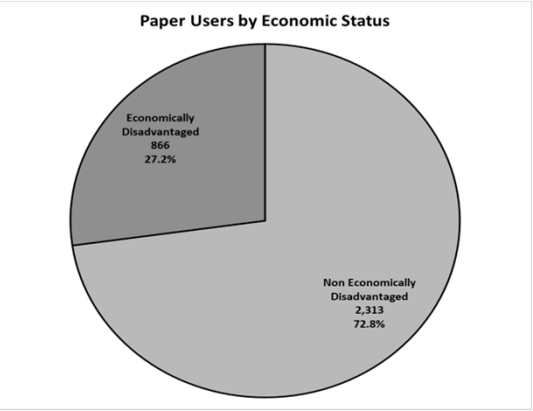


41

41

Economic Status

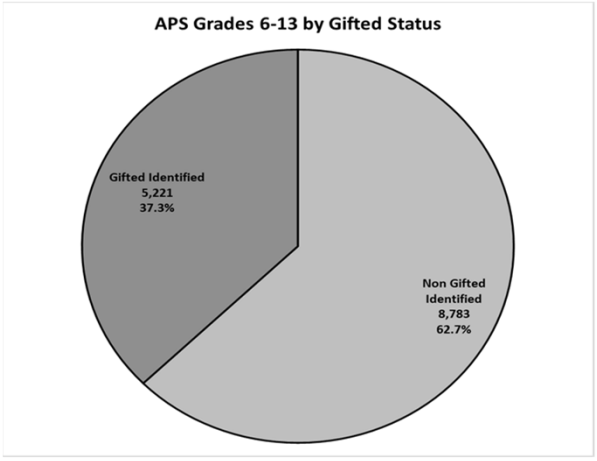


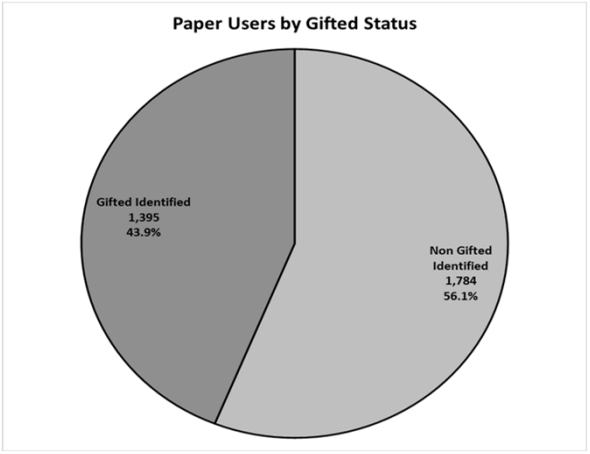


42

42

Gifted Status





43

43