

DISTRICT UTILIZATION STUDY UPDATE

for the

PENNRIDGE SCHOOL DISTRICT

Bucks County, Pennsylvania



B **BRESLIN** ARCHITECTS

May 27, 2025

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I. PURPOSE

In September of 2017, Breslin Architects presented Pennridge School District with a District-Wide Utilization Study. Included in this study were enrollment projections indicating significant declines in enrollment to be expected. The study also included options for the District to consider to address the projected enrollment declines. No action was taken on the options included in the study.

In June of 2024, having realized declines in enrollment, Pennridge School District engaged Breslin Architects to provide an update to the 2017 study. The Pennsylvania Economy League was engaged to provide new enrollment projections. The enrollment projections were completed in February of 2025 utilizing the District's official 2024-25 enrollments reported to the Pennsylvania Department of Education in October of 2024.

The purpose of this update, is to provide a fresh analysis of school utilization, school capacities, and enrollment projections along with re-visiting the options completed with the previous study to address projected enrollment declines.

II. AUTHOR'S CREDENTIALS & ACKNOWLEDGEMENTS

Over the past 61 years Breslin Architects has earned commissions for over 400 public education projects encompassing more than four billion dollars in construction value, and authored 30 District-wide Studies. The following architect and demographic consultant spoke with District Administration, Faculty and Staff, and made significant contributions to the completion of this Study:

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Breslin Architects wishes to thank Superintendent Dr. Angelo Berrios, Assistant Superintendent Mr. Bradley Palmer, Business Manager Mr. Sean Daubert, and all school principals for their guidance and contributions to the completion of this study.

III. GEOGRAPHY

The Pennridge School District provides public education for children in northern Bucks County, Pennsylvania. The District includes the boroughs of Dublin, Perkasie, Sellersville, and Silverdale; the townships of Bedminster, East Rockhill, Hilltown, and West Rockhill. The District operates seven elementary schools, three middle schools, and one high school located throughout the various townships and boroughs. The District also operates an administration building, a maintenance building, and a district education support center.

ENROLLMENT PROJECTIONS

I. DISTRICT ENROLLMENTS

The Pennsylvania Economy League (PEL) completed District Enrollment Projections in February 2025. The final report by PEL is included in the Appendix of this study. Below is a comparison of the projections from the Pennsylvania Economy League (PEL) study and the most recent Pennsylvania Department of Education (PDE) enrollment projections.

Comparison of PEL and PDE Enrollment Projections

	ELEMENTARY K-5		MIDDLE 6-8		HIGH 9-12		TOTAL	
	PEL	PDE	PEL	PDE	PEL	PDE	PEL	PDE
2023-2024		2,674		1,434		2,177		6,285
2024-2025	2,573	2,622	1,390	1,369	2,149	2,150	6,112	6,141
2025-2026	2,523	2,579	1,380	1,374	2,049	2,042	5,952	5,995
2026-2027	2,455	2,517	1,429	1,441	1,920	1,914	5,804	5,872
2027-2028	2,460	2,529	1,388	1,411	1,893	1,869	5,741	5,809
2028-2029	2,464	2,545	1,393	1,404	1,819	1,792	5,676	5,741
2029-2030	2,478		1,351		1,833		5,662	
5 YEAR CHANGE	-95	-129	-39	-30	-316	-385	-450	-544

2029-2030		2,580		1,353		1,832		5,765
2030-2031	2,551	2,653	1,285	1,323	1,842	1,847	5,678	5,823
2031-2032	2,585	2,734	1,237	1,285	1,823	1,827	5,645	5,846
2032-2033	2,621	2,805	1,212	1,279	1,803	1,809	5,636	5,893
2033-2034	2,617	2,863	1,289	1,325	1,702	1,733	5,608	5,921
2034-2035	2,597		1,344		1,675		5,616	
5-10 YEAR CHANGE	119	318	-7	-79	-158	-59	-46	180
10 YEAR CHANGE	24	189	-46	-109	-474	-444	-496	-364

At the elementary school level, the projections show a decrease in enrollment in the next 5 years followed by increases in enrollments from years 5-10.

At the middle school level, there is a modest decline in enrollment projected over the next 10 years.

At the high school level, there is a significant decline in enrollment expected in the next 5 years followed by a modest decline in enrollments from years 5-10.

ENROLLMENT PROJECTIONS

I. DISTRICT ENROLLMENTS

In 2016, both the Pennsylvania Economy League (PEL) and the Pennsylvania Department of Education (PDE) provided 10-year enrollment projections for Pennridge School District. Below is a comparison of the projected 2024-2025 enrollments from 2016 against the actual 2024-2025 enrollments.

Comparison of Projected 2024-2025 Enrollments to Actual 2024-2025 Enrollments from the 2016 Projections

	ELEMENTARY K-5		MIDDLE 6-8		HIGH 9-12		TOTAL	
	PEL	PDE	PEL	PDE	PEL	PDE	PEL	PDE
2015-2016 Actual	3,184		1,763		2,355		7,302	
2024-2025 Projected	2,744	2,603	1,482	1,521	2,267	2,236	6,493	6,360
2024-2025 Actual	2,573		1,390		2,149		6,112	
Variance #	-171	-30	-92	-131	-118	-87	-381	-248
Variance %	-6.23%	-1.15%	-6.21%	-8.61%	-5.21%	-3.89%	-5.87%	-3.90%

Across all grade levels, enrollments in Pennridge School District have declined at a greater rate than was projected in 2016.

ENROLLMENT PROJECTIONS

II. ENROLLMENT PROJECTIONS BY SCHOOL

Below are a comparison of the actual enrollments from the 2016-17 school year to the 2024-25 school year along with 5-year and 10-year enrollment projections, by school, using the PEL projections.

	ACTUAL SCHOOL ENROLLMENTS				PROJECTED SCHOOL ENROLLMENTS					
	2016-17	2024-25			5-Year 2029-30			10-Year 2034-35		
School	Enroll.	Enroll.	# +/-	% +/-	Enroll.	# +/-	% +/-	Enroll.	# +/-	% +/-
Elementary Schools										
Bedminster	444	403	-41	-9.2%	439	36	8.9%	444	41	10.2%
R.B. Deibler	437	329	-108	-24.7%	309	-20	-6.1%	319	-10	-3.0%
J.M. Grasse	451	399	-52	-11.5%	380	-19	-4.8%	392	-7	-1.8%
Dr.P.A. Guth	465	405	-60	-12.9%	387	-18	-4.4%	411	6	1.5%
Sellersville	441	295	-146	-33.1%	307	12	4.1%	316	21	7.1%
M.M. Seylar	445	387	-58	-13.0%	432	45	11.6%	453	66	17.1%
West Rockhill	403	355	-48	-11.9%	354	-1	-0.3%	373	18	5.1%
Middle Schools										
North	658	529	-129	-19.6%	553	24	4.5%	576	47	8.9%
Central	682	475	-207	-30.4%	451	-24	-5.1%	470	-5	-1.1%
South	498	386	-112	-22.5%	322	-64	-16.6%	335	-51	-13.2%
High School										
High School	2,327	2,149	-178	-7.6%	1,799	-350	-16.3%	1,704	-445	-20.7%

I. CAPACITY ANALYSIS

An analysis of the current space usage was undertaken for the existing school buildings with the assistance of District personnel. A set of floor plans of each school building that includes room names, sizes and capacities accompanies this study.

Pennsylvania Department of Education (PDE) standards were followed in determining which spaces within a building are counted toward building capacity but District class sizes were used in lieu of the default PDE class sizes. Below are the District's maximum class sizes showing how they compare to the default PDE class size.

Elementary Schools

Standard PDE capacity:

K-5 classrooms = 25 students

Pennridge School District Class Size Guidelines:

K classrooms = 25 students
 1 classrooms = 27 students
 2-3 classrooms = 28 students
 4-5 classrooms = 30 students

Middle Schools

<u>Educational Space</u>	<u>PDE Capacity</u>	<u>Pennridge Max. Class Size</u>
Typical	25	30
Science Lab	20	24
STEM	20	24
Family Consumer Science	20	24
Art Room	20	24
Technology Education	20	24
Physical Education (Gym)	66	40

High School

<u>Educational Space</u>	<u>PDE Capacity</u>	<u>Pennridge Max. Class Size</u>
Typical	25	28
Science Lab	20	24
Family Consumer Science	20	24
Art Room	20	24
Industrial Arts	20	24
Media Production/TV Studio	20	24
Computer Lab	20	24
Band/Orchestra	25	30
Physical Education (Gym)	66	40

The instructions provided to school principals for providing building information are included in the appendix. Rooms listed in bold on these instructions are used for the building capacity calculations according to PDE standards.

SCHOOL BUILDING CAPACITIES

II. UTILIZATION FACTOR

For middle schools and high schools, once the building capacity is determined, a utilization factor is applied to the total to reflect that not every seat is in use at any given time. PDE uses a default utilization factor of 0.90. An evaluation of Pennridge's middle and high school schedules and class sizes yielded the following:

Middle School Utilization Factor	= 0.75
High School Utilization Factor	= 0.85

These factors are in line with other Districts we have worked with. With team teaching, the middle schools typically have a lower utilization factor than high schools.

III. SUMMARY OF SCHOOL CAPACITIES

Below is a summary of school building capacities, using District class sizes with utilization factors applied, along side of the current 2024-25 enrollments.

ELEMENTARY SCHOOLS	SIZE (AREA)	BUILDING CAPACITY	CURRENT ENROLLMENT	VARIANCE
Bedminster Elementary	61,000 SF	504	403	101
R. B. Diebler Elementary	53,100 SF	451	329	122
J.M. Grasse Elementary	59,200 SF	509	399	110
Dr. Patricia A. Guth Elementary	78,200 SF	507	405	102
Sellersville Elementary	68,400 SF	416	295	121
M. M. Seylar Elementary	65,600 SF	479	387	92
West Rockhill Elementary	74,000 SF	534	355	179
MIDDLE SCHOOLS	SIZE (AREA)	BUILDING CAPACITY	CURRENT ENROLLMENT	VARIANCE
Central Middle School	130,000 SF	771	475	296
North Middle School	142,100 SF	773	529	244
South Middle School	103,800 SF	776	386	390
HIGH SCHOOL	SIZE (AREA)	BUILDING CAPACITY	CURRENT ENROLLMENT	VARIANCE
Pennridge High School	586,000 SF	2700	2149	551

IV. SCHOOL CLASSROOM UTILIZATION

Below is a summary of classroom utilization by school highlighting the percentage of total classrooms that are used for special education programs. Per PDE standards, a room must be >660 square feet to be considered a classroom.

Elementary Schools

ELEMENTARY SCHOOLS	TOTAL # CLASSROOMS >660 SQ. FT.	#CLASSROOMS >660 SQ. FT. (PDE CAPACITY)	# RELATED ARTS CLASSROOMS >660 SQ. FT. (NO CAPACITY)	# SPEC. ED. CLASSROOMS >660 SQ. FT. (NO CAPACITY)	SPEC. ED. CLASSROOMS >660 SQ. FT. AS A % OF TOTAL
Bedminster	26	17	3	6	23.1%
R. B. Diebler	22	15	3	4	18.2%
J.M. Grasse	22	17	2	3	13.6%
Dr. Patricia A. Guth	25	17	3	5	20.0%
Sellersville	27	14	3	10	37.0%
M. M. Seylar	26	16	3	7	26.9%
West Rockhill	28	18	3	7	25.0%

Classrooms - At the elementary level, this is the total number of grade level classrooms that, per PDE, contribute towards building capacity.

Related Arts Classrooms - At the elementary level, this is Art, Music, and STEM classrooms. At J.M. Grasse Elementary School, the Music Classroom is on the stage and is less than 660 square feet so it is not counted here. Per PDE, these spaces do not contribute towards building capacity.

Special Education Classrooms - This includes Special Education, Autistic Support, Learning Support, Instructional Support, OT/PT, Speech, Specialists, IST, Developmental Kindergarten, Emotional Support, MDS Classrooms, Life Skills, Psychologist. Per PDE, these spaces do not contribute towards building capacity.

IV. SCHOOL CLASSROOM UTILIZATION

Below is a summary of classroom utilization by school highlighting the percentage of total classrooms that are used for special education programs. Per PDE standards, a room must be >660 square feet to be considered a classroom.

Middle & High Schools

MIDDLE & HIGH SCHOOLS	TOTAL # CLASSROOMS >660 SQ. FT.	#CLASSROOMS >660 SQ. FT. (PDE CAPACITY)	# LABS, SHOPS, GYMS, ETC. >660 SQ. FT. (PDE CAPACITY)	# SPEC. ED. CLASSROOMS >660 SQ. FT. (NO CAPACITY)	SPEC. ED. CLASSROOMS >660 SQ. FT. AS A % OF TOTAL
Central	40	20	15	5	12.5%
North	42	23	13	6	14.3%
South	37	20	15	2	5.4%
High School	128	80	34	14	10.9%

Classrooms - At the middle & high school levels, this is the total number of typical classrooms that, per PDE, contribute towards building capacity.

Labs, Shops, Gyms, Etc. - At the middle & high school levels, this includes specialty spaces such as Science Labs, Computer Labs, TV Studios, Art Classrooms, Music Classrooms, Band Rooms, Choral Rooms, Family Consumer Science Rooms, Industrial Arts Shops, Tech Ed Rooms, STEM Rooms, and Gymnasiums. Per PDE, these spaces contribute towards building capacity.

Special Education Classrooms - This includes Special Education, Autistic Support, Instructional Support, OT/PT, Speech, Specialists, IST, MDS Classrooms, Sensory, Psychologist. Per PDE, these spaces do not contribute towards building capacity.

V. ELEMENTARY CLASS SIZES

At the elementary school level, enrollments are projected to continue a modest decline over the next 5-years, but in years 5-10, enrollments are expected to return to current levels or even increase slightly over current levels. Based on these projections, if no changes are made at the elementary level, it can be expected that average class sizes should not change significantly long term.

Average Class Sizes (District-Wide Average)

	# SECTIONS	CURRENT CLASS SIZE	2029-2030 CLASS SIZE	2034-2035 CLASS SIZE	MAXIMUM CLASS SIZE
K*	17	18	21	22	25
1**	21	21	22	22	27
2**	21	22	22	22	28
3***	20	22	21	23	28
4***	20	24	21	24	30
5***	20	23	19	24	30

* Kindergarten - Based on current (14) sections of 1/2 day Kindergarten and (3) sections of full-day Kindergarten

** 1st & 2nd Grades - Based on an average of (3) classes at each school

*** 3rd, 4th, & 5th Grades - Based on an average of (3) sections at each elementary school except for (2) sections each at Sellersville ES.

SUMMARY OF RECOMMENDATIONS

Using the data collected during this study, below is a summary of recommendations for consideration by Pennridge School District to address declining enrollments and the potential for full-day Kindergarten.

RECOMMENDATION 1 - Consolidate to Two Middle Schools

Close a Middle School and redistrict the remaining (2) Middle Schools to absorb student enrollments

Estimated Initial Expenses -	\$320,000
Estimated Annual Savings -	(\$3,342,509)
Estimated Implementation -	Fall 2026

RECOMMENDATION 2 - Full-Day Kindergarten

Provide partial renovations to (6) elementary schools to increase building capacities to add full-day Kindergarten.

Estimated Initial Expenses -	\$4,007,980
Estimated Annual Expenses -	\$1,187,400
Estimated Implementation -	Fall 2026

RECOMMENDATION 1 - CONSOLIDATE TO TWO MIDDLE SCHOOLS

Recommendation 1 - Summary

Based on current and projected enrollments, a middle school can be closed beginning in the 2026-2027 school year. This would involve redistricting the remaining middle schools to balance student populations.

A recommendation for which school to close is not included with this study. Factors to consider when recommending a school for closure are:

- Facility conditions including building age and energy cost(s)
- Inherent deficiencies in a current school facility that cannot be corrected
- Impacts of redistricting
- Enrollment declines within the geographic area of each school
- Opportunities for a school to be sold or repurposed (alternative school, STEM academy, etc.)

RELEVANT DATA:

Current MS 2024-2025 Enrollments

- Central MS 475
- North MS 529
- South MS 386

Projected Enrollment at each remaining MS if one is closed: 680-710

Functional Capacity using Pennridge SD Maximum Class Sizes and a 75% Utilization Factor

- Central MS 771
- North MS 773
- South MS 776

Historic Maximum Enrollment since 2004-2005 using PDE Data

- Central MS 682 in 2016-2017
- North MS 699 in 2011-2012
- South MS 531 in 2004-2005

ADVANTAGES:

- Maximizes use of remaining middle schools
- Operational savings
- Reduces Administrative/Teaching/Staffing needs

DISADVANTAGES:

- Loss of a community school
- Redistricting of middle schools
- If property is sold or otherwise repurposed, it may limit flexibility for future increases in enrollment

RECOMMENDATION 1 - CONSOLIDATE TO TWO MIDDLE SCHOOLS

ESTIMATED COSTS

Initial Expenses

Transportation (Purchase (2) Buses)	\$ 320,000
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Annual Costs

Expenses

Transportation (Add (2) Drivers/Bus Runs)	\$ 100,000
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Savings

Principal / Assistant Principal	(\$ 410,920)
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Clerical	(\$ 197,327)
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Custodial Staff	(\$ 333,877)
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Teachers (16)	(\$ 1,923,950)
---------------	----------------

Aides (4)	(\$ 225,462)
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Lunch Room Monitor	(\$ 10,502)
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Security Officer	(\$ 62,055)
------------------	-------------

Nutritional Services	(\$ 148,657)
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<u>Operational (Utilities/Custodial Supplies)</u>	<u>(\$ 129,759)</u>
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Annual Savings Subtotal	(\$ 3,442,509)
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Total Estimated Annual Savings	(\$ 3,342,509)
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POTENTIAL SCHEDULE:

- Implement Fall 2026

RECOMMENDATION 2 - FULL-DAY KINDERGARTEN

Recommendation 2 – Summary

DESCRIPTION:

The goal for the 2026-27 school year is for each school to have 3 dedicated classrooms for full-day Kindergarten for a total of 21 sections district-wide. This will require an additional Kindergarten Classroom in each school. For the 2025-26 school year, each elementary school will have 1 dedicated classroom for Full-Day Kindergarten and 1 dedicated classroom for traditional 1/2 day Kindergarten. The District has plans in place for the 2025-26 school year. This recommendation focuses on planning for the 2026-27 school year.

Historical data indicates that Pennridge experiences a roughly 23% jump in enrollment between Kindergarten and First Grade. When full-day Kindergarten is offered, it is expected that Kindergarten enrollments will increase significantly which will result in larger class sizes.

2026-27 Projected Enrollment without full-day Kindergarten = 331
2026-27 Projected Enrollment with full-day Kindergarten = 407

Strategy for Creating Additional Kindergarten Classrooms

To make additional Kindergarten Classrooms available for 2026-27 school year, we propose targeted renovations as needed at 6 of the 7 elementary schools to create Small Group Rooms to provide appropriately sized spaces for Special Education Programs while freeing up Classrooms for Kindergarten. There are currently 42 full-size Classrooms being utilized for Special Education Programs in the Elementary Schools. As originally planned, these rooms were designed for 25-30 students and, in most cases, are being used by less than 15 students. Renovations are proposed to convert full-size Classrooms into Small Group Rooms. Increasing the number of Small Group Rooms available will allow Special Education Programs to continue while using the available square footage more efficiently.

Building Additions

While not likely feasible for the 2026-27 school year, future additions can be considered at R.B. Deibler ES and J.M. Grasse ES. As planned at R.B. Deibler ES, one grade level K-5 will be limited to 2 sections instead of the typical 3 sections. Currently, the school only has two 3rd grade sections. At J.M. Grasse ES, the stage is currently being used as the Music Room. This space is undersized for its intended use and consideration should be given to a building addition to provide an appropriate space.

Redistricting

Elementary School enrollments for the 2024-25 school ranged from a low of 295 at Sellersville ES to a high of 405 at Guth ES. As part of the expansion to full-day Kindergarten, redistricting of the Elementary Schools can be considered to balance student populations and ease crowding at schools such as J.M. Grasse ES.

Floor plans identifying the proposed scope of renovations and additions are attached.

RECOMMENDATION 2 - FULL-DAY KINDERGARTEN

ADVANTAGES:

- Improved student performance
- Improved student retention vs. other options (private, charter, etc.)
- Preferred by teachers and parents

DISADVANTAGES:

- Requirement for renovations/additions
- The addition of teachers/staff required to support the expanded program

ESTIMATED COSTS

Initial Expenses

Renovation Cost (6,870 SF x \$295/SF)	\$ 2,026,650
Architectural/Engineering Fees	\$ 200,000
Furniture & Equipment	\$ 180,000
<u>Additional Construction Related Costs (20%)</u>	<u>\$ 481,330</u>
Renovation Subtotal	\$ 2,887,980*
 <u>Transportation (Purchase 7 Buses)</u>	 <u>\$ 1,120,000</u>
Initial Expense Total	\$ 4,007,980

Annual Expenses

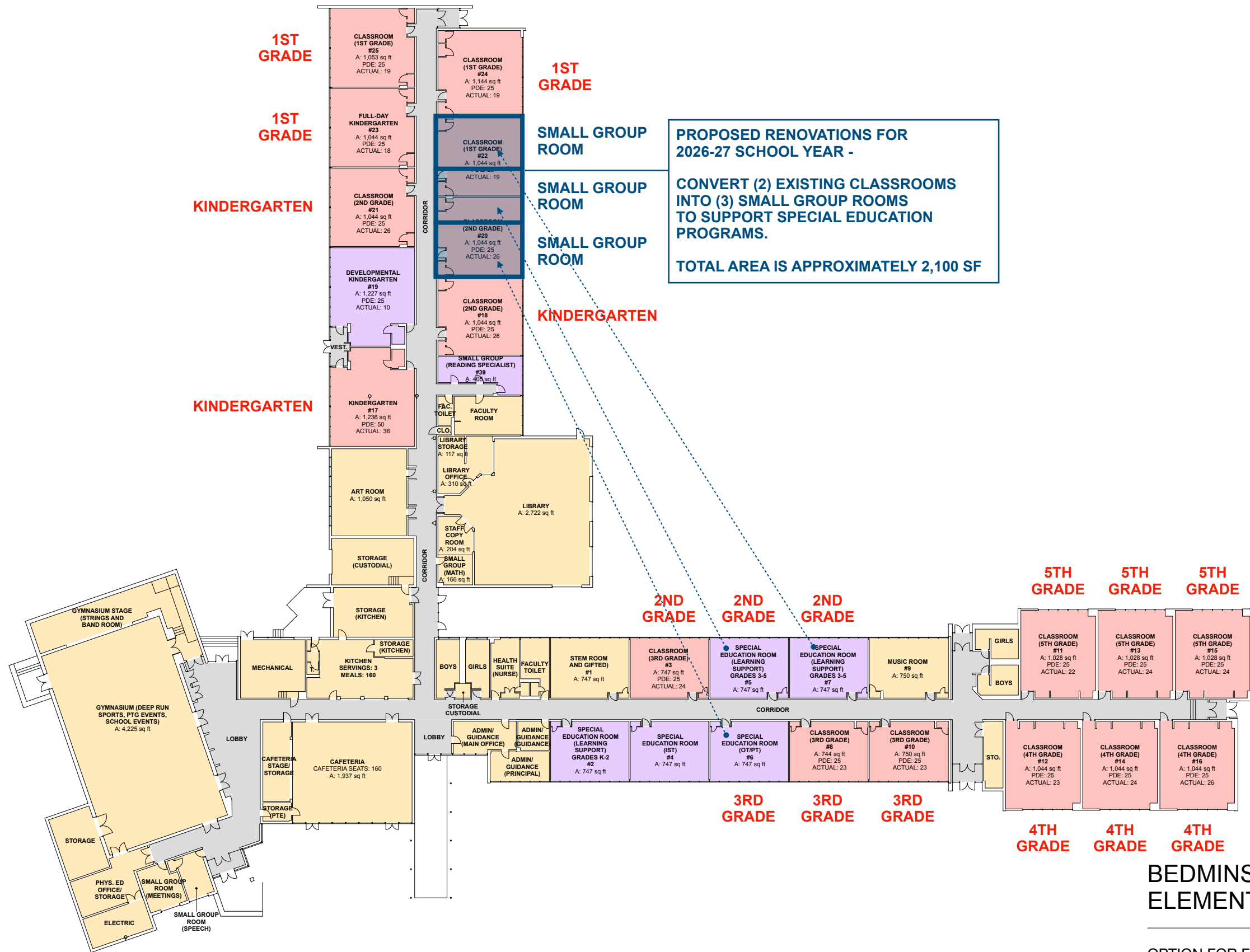
Additional Kindergarten Teachers (7)	\$ 837,400
<u>Transportation (Add (7) Drivers/Bus Runs)</u>	<u>\$ 350,000</u>
Annual Expense Total	\$ 1,187,400

POTENTIAL SCHEDULE

- | | |
|-------------------------------------|-------------------------|
| • Board Approves Recommendation | August - September 2025 |
| • Complete Construction Documents | February 2026 |
| • Board Approval and Bidding | March 2026 |
| • Receive and Review Bids | April 2026 |
| • Board Approval and Award Contract | April 2026 |
| • Notice to Proceed | May 2026 |
| • Occupy Renovated Classrooms | August 2026 |

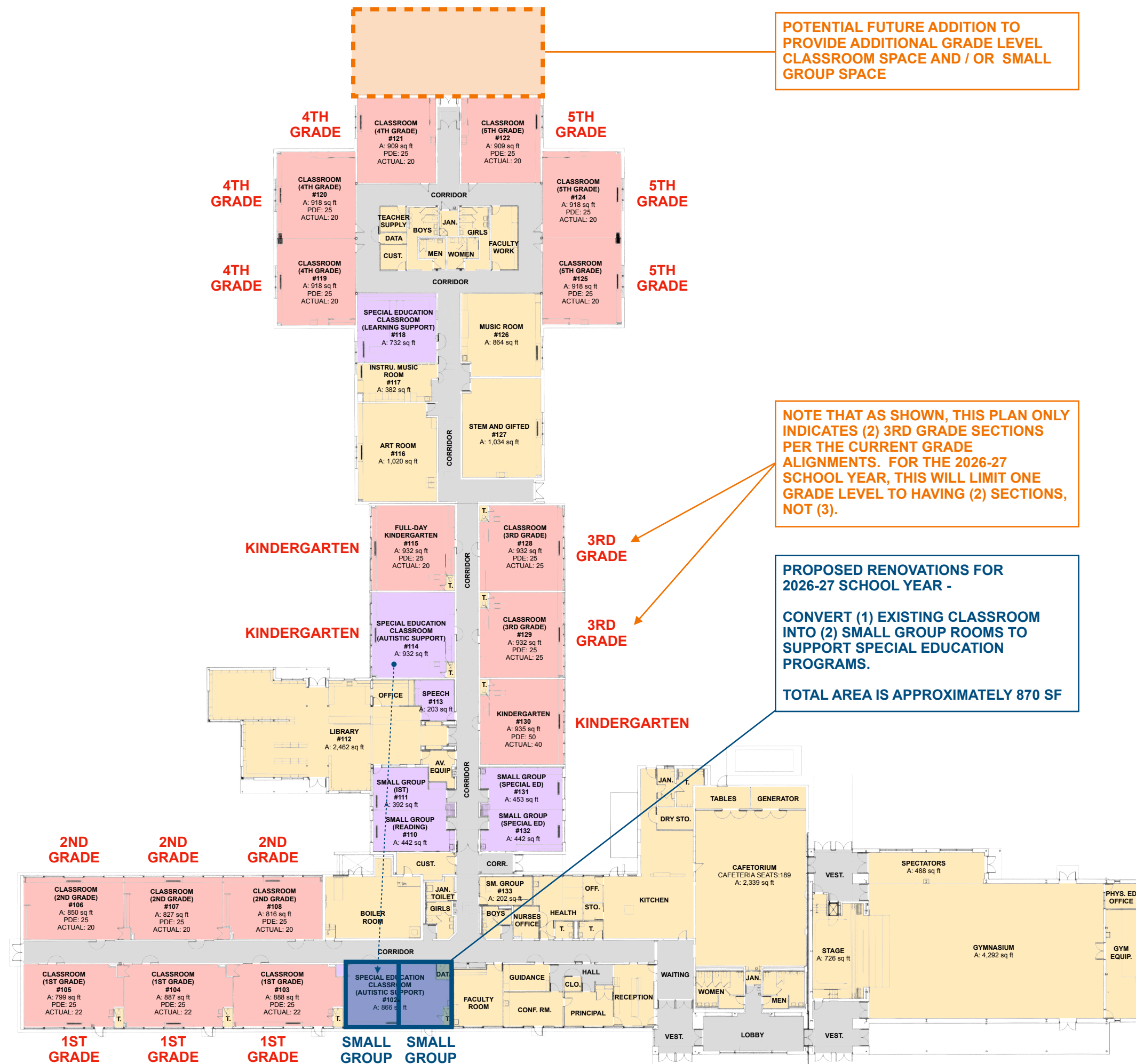
TOTAL PROJECT DURATION 12 months

- * *Estimate is based on the renovation work for the (6) Elementary Schools being bid as a single project. Estimated cost does not include Construction Management fees, financing costs, asbestos abatement, hazardous material abatement, wastewater treatment costs or any off-site work.*



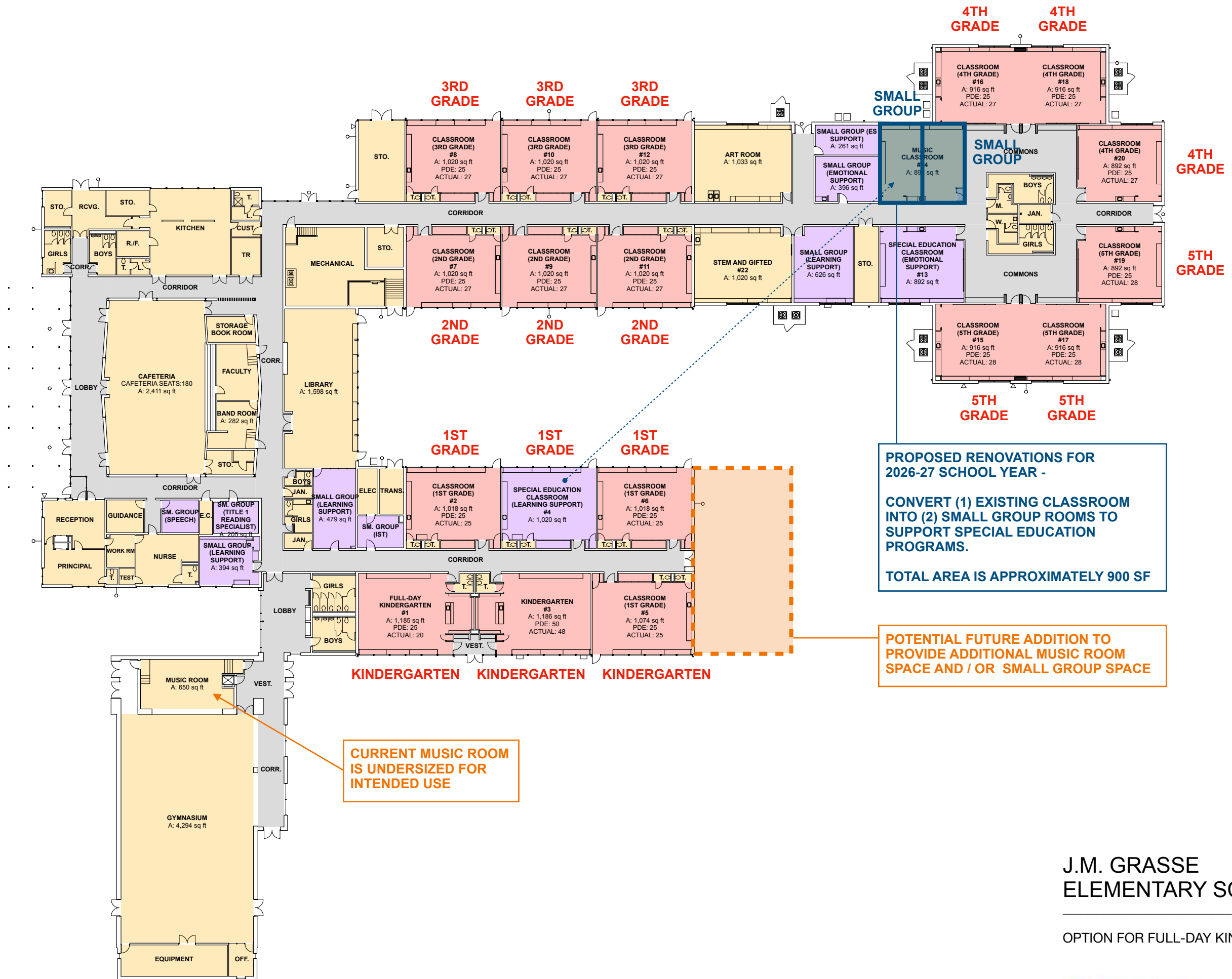
BEDMINSTER ELEMENTARY SCHOOL

OPTION FOR FULL-DAY KINDERGARTEN



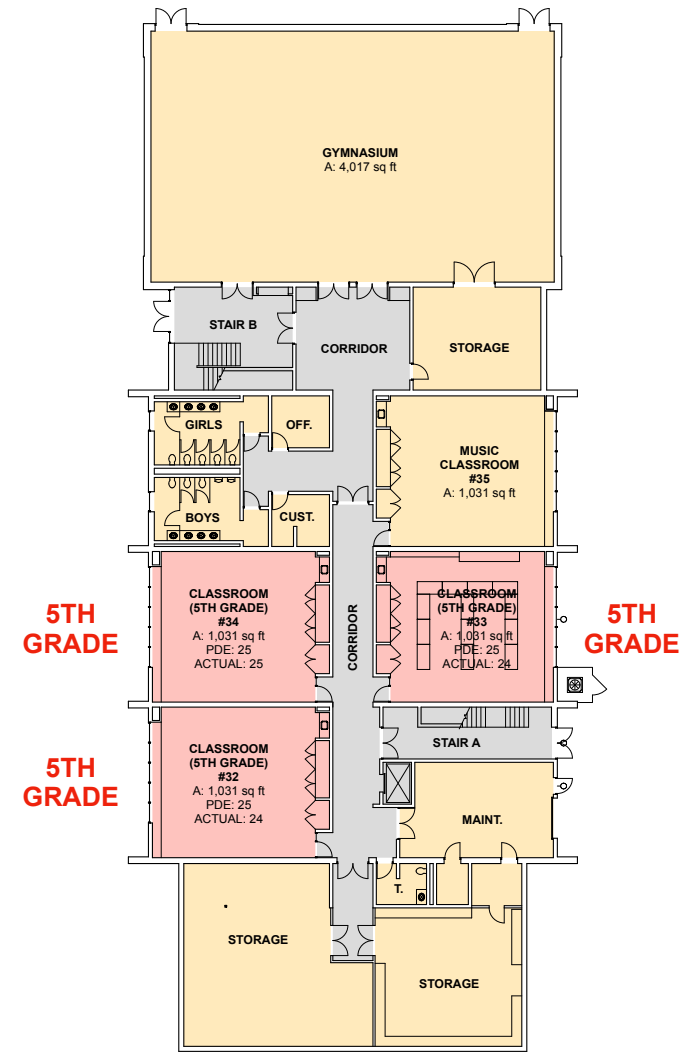
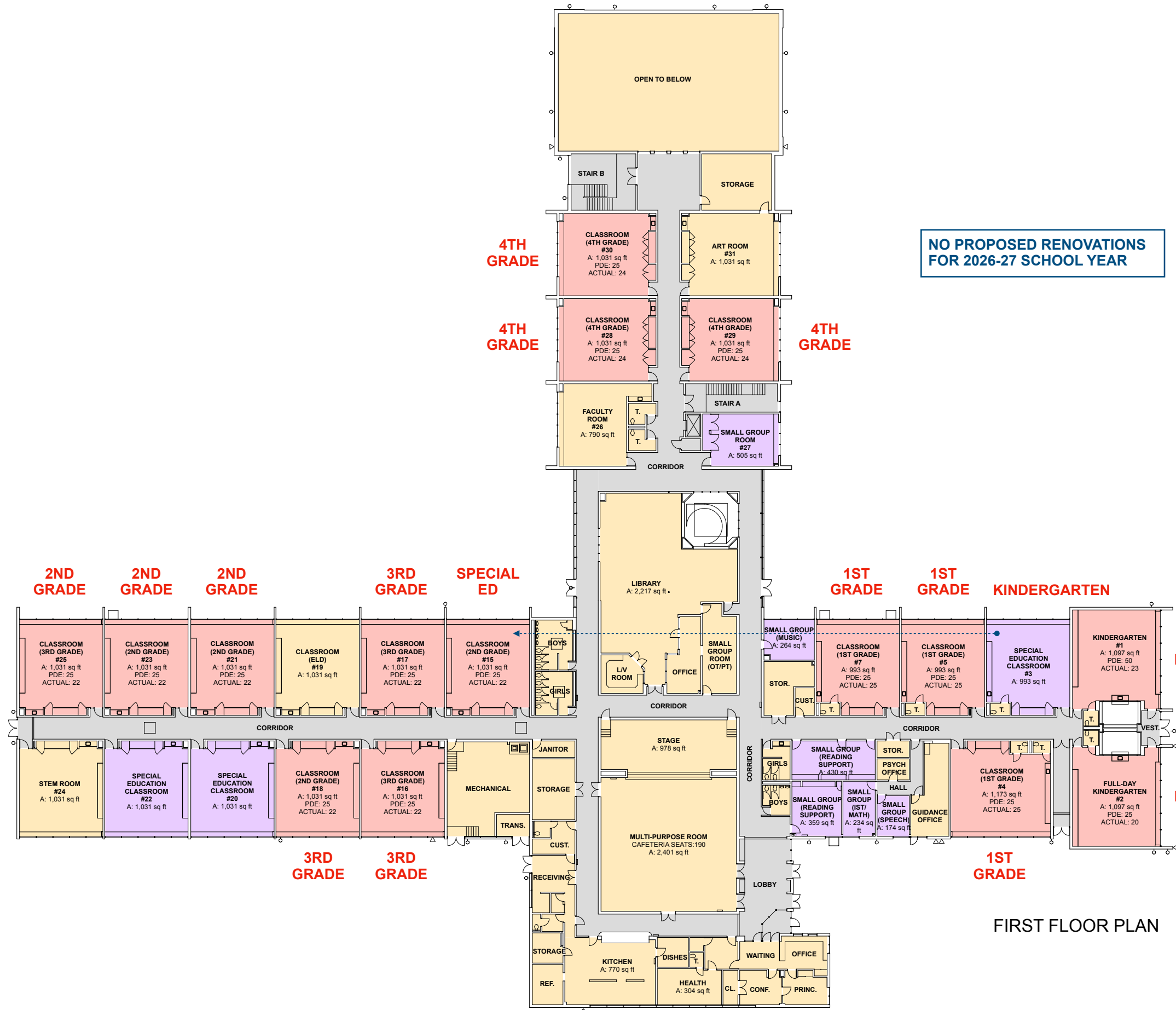
R.B. DEIBLER ELEMENTARY SCHOOL

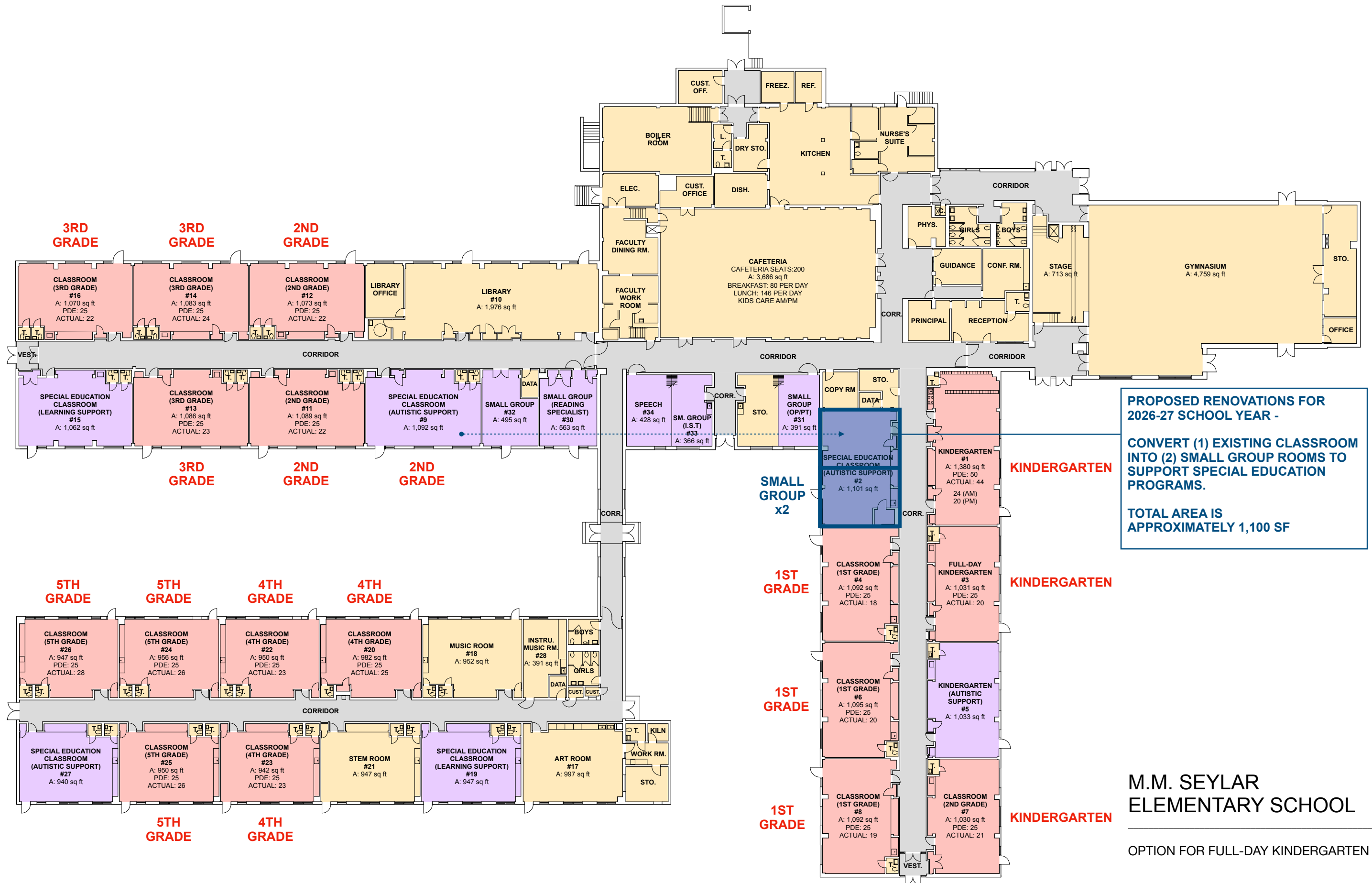
OPTION FOR FULL-DAY KINDERGARTEN



J.M. GRASSE
ELEMENTARY SCHOOL

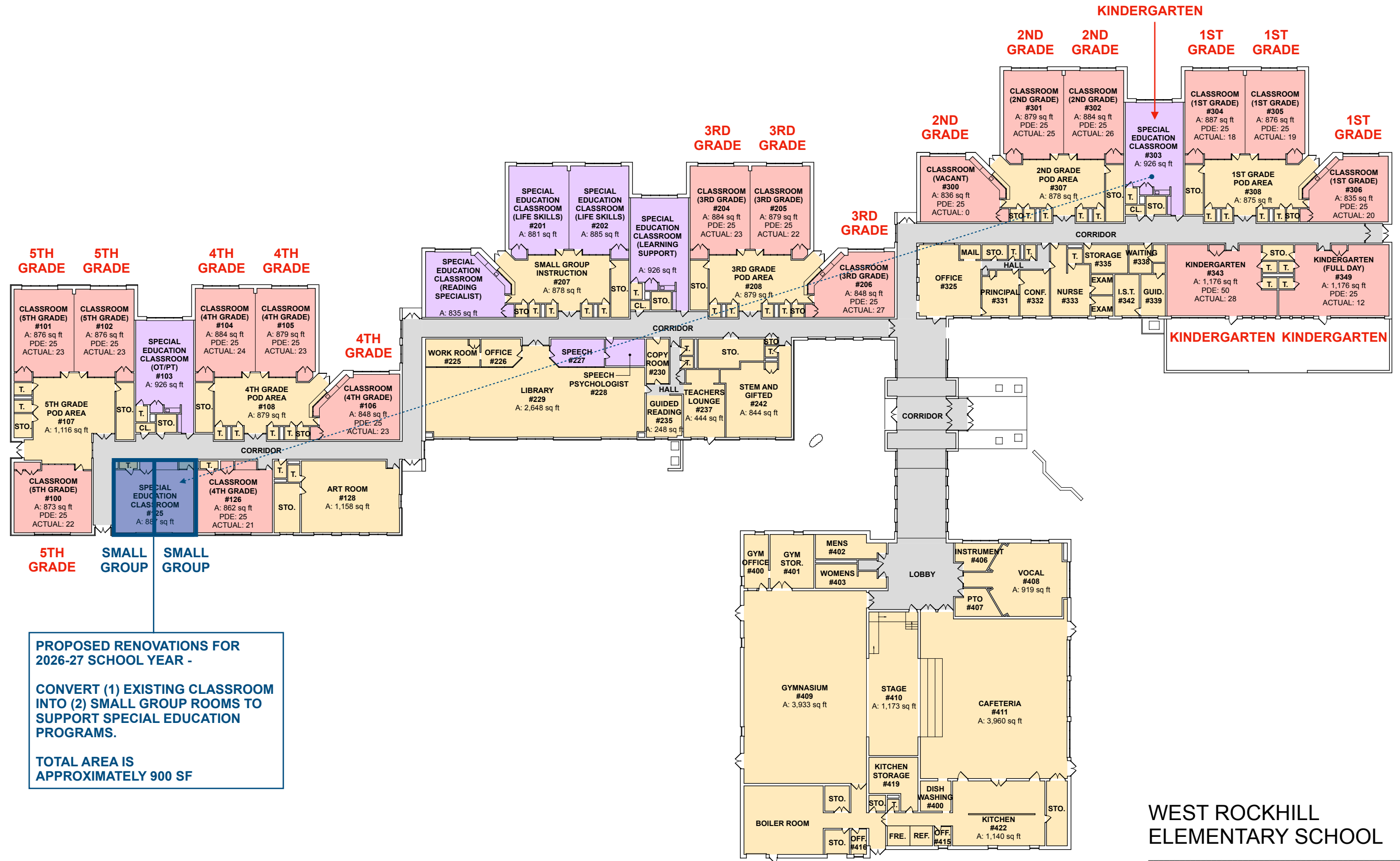
OPTION FOR FULL-DAY KINDERGARTEN





M.M. SEYLAR
ELEMENTARY SCHOOL

OPTION FOR FULL-DAY KINDERGARTEN



Pennridge School District
Building Utilization Study Update – Elementary Schools

Completed By: _____

Title/Position: _____

School Facility: _____

Date: _____

Breslin Architects has been hired by the Pennridge School District to update the District-Wide Building Utilization Study completed in 2017. This includes an analysis of each school building's capacity as it relates to the educational programming. The determination of building capacity will be consistent with Pennsylvania Department of Education standards. We are asking for your assistance with providing the information outlined below.

Included are (2) copies of the floor plans created in 2017 of your school. One of these copies is a "work" copy for you to mark-up as you see fit, and the other copy is a final copy to be returned with the information listed below.

- Please verify all room names and numbers and correct as needed. For consistency with PDE, please identify spaces using the names listed below. Any school specific names can be included in parenthesis (i.e. Small Group Room (Itinerant Support)). For rooms listed in **bold***, please indicate **average class size** for each room on the plan.
 - Library
 - **Kindergarten***
 - **Pre-School***
 - **Classroom*** (also identify grade level)
 - **Special Education Room***
 - **Special Education Pre-School***
 - Small Group Room
 - Computer Room
 - Art Room
 - STEM Room
 - Music Room
 - Multi-Purpose Room
 - Stage
 - Kitchen (include # servings and # meals prepared per serving)
 - Cafeteria (include # seats)
 - Faculty Dining Room
 - Faculty Room
 - Health Suite (Nurse)
 - Administration/Guidance
 - Any additional rooms not listed above (i.e. Storage, Mechanical, Electrical, Custodial, etc.)
- Please be sure to identify any spaces used by outside organizations during the school day such as the Intermediate Unit, YMCA, etc.
- If there are inaccuracies in the floor plans provided, please note them on the floor plan.

We know you are very busy and thank you very much for your help with this process. If there are any questions, please contact: Michael R. Bell, AIA, 610-437-9626, michaelbell@breslinarchitects.com.

Pennridge School District
Building Utilization Study Update – Middle & High Schools

Completed By: _____

Title/Position: _____

School Facility: _____

Date: _____

Breslin Architects has been hired by the Pennridge School District to update the District-Wide Building Utilization Study completed in 2017. This includes an analysis of each school building's capacity as it relates to the educational programming. The determination of building capacity will be consistent with Pennsylvania Department of Education standards. We are asking for your assistance with providing the information outlined below.

Included are (2) copies of the floor plans created in 2017 of your school. One of these copies is a "work" copy for you to mark-up as you see fit, and the other copy is a final copy to be returned with the information listed below.

- Please verify all room names and numbers and correct as needed. For consistency with PDE, please identify spaces using the names listed below. Any school specific names can be included in parenthesis (i.e. Student Activity Room (Newspaper)). If any rooms are for a specific grade level, please indicate the grade level. For rooms listed in **bold***, please indicate **average class size** for each room on the plan.

- | | |
|--|---|
| <ul style="list-style-type: none">○ Library○ Classroom*○ Special Education Room*○ Small Group Room○ Large Group Instruction○ Auditorium (include # seats)○ Stage○ Science Classroom* (used only for lecture and demonstration)○ Science Lab* (includes lab stations for students to conduct experiments)○ Science Student Project Room○ Planetarium Classroom*○ Observatory○ Business Classroom* (lecture room)○ Business Lab* (includes equipment for student work(i.e. – historically typewriters))○ Computer Lab*○ TV Studio*○ Art Classroom*○ Music Classroom*○ Band Room*○ Orchestra Room*○ Choral Room*○ Family/Consumer Science*○ Industrial Arts/Shop* | <ul style="list-style-type: none">○ Technical Education*○ STEM Classroom*○ Vocational Agriculture Shop*○ Driver's Education Classroom*○ Gymnasium* (include # classes run concurrently)○ Auxiliary Gymnasium*○ Wrestling Room○ Weight Room○ Locker Room○ Team Room○ Instructor's Office○ Natatorium (pool)○ Kitchen (include # servings and # meals prepared per serving)○ Cafeteria (include # seats)○ Faculty Dining Room○ Faculty Room○ Instructional Planning Center (IPC)○ Conference Room○ Student Activity Room○ Health Suite (Nurse)○ Administration/Guidance○ Any additional rooms not listed above (i.e. Storage, Mechanical, Electrical, Custodial, etc.) |
|--|---|

- Please be sure to identify any spaces used by outside organizations during the school day such as the Intermediate Unit, YMCA, etc.
- If there are inaccuracies in the floor plans provided, please note them on the floor plan.

We know you are very busy and thank you very much for your help with this process. If there are any questions, please contact: Michael R. Bell, AIA, 610-437-9626, michaelbell@breslinarchitects.com.

BRESLIN ARCHITECTS



PENNSYLVANIA
ECONOMY LEAGUE
Information, Insight, Integrity.

PENNRIDGE SCHOOL DISTRICT ENROLLMENT PROJECTIONS

FEBRUARY 2025

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Chapter 1 Demographic Trends

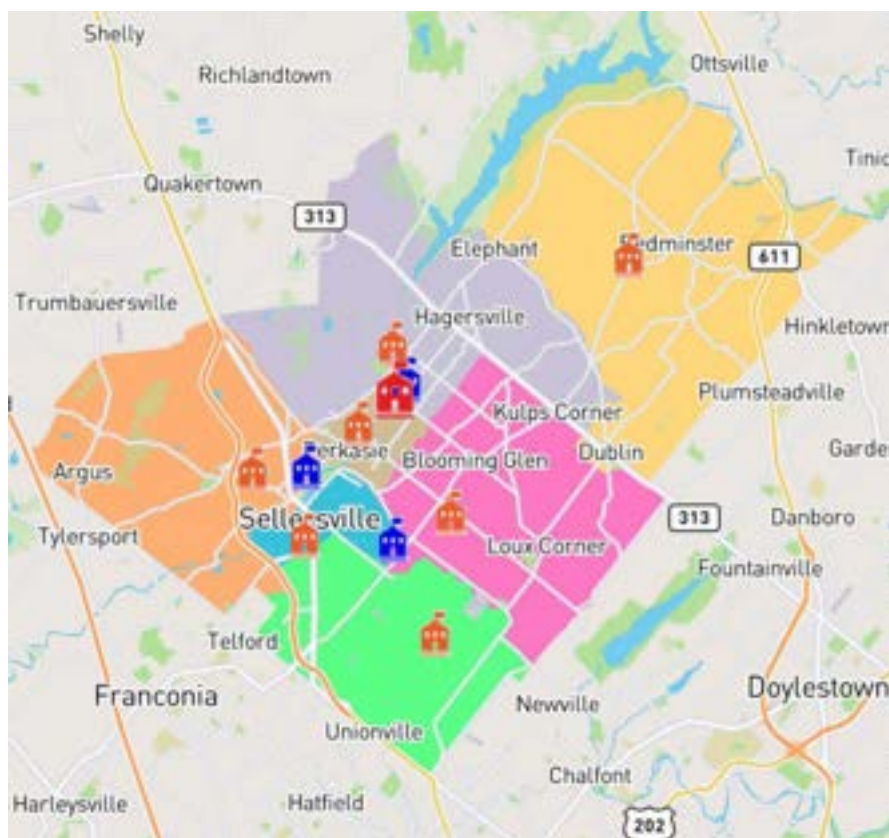
Introduction

About the Pennridge School District

The Pennridge School District is one of the largest districts in Pennsylvania. The district is approximately 30 miles north of Philadelphia in Bucks County, Southeast Pennsylvania and encompasses about 95 square miles with a total population of over 50,000 residents.

Eight municipalities comprise the Pennridge School District: the boroughs of Silverdale, Dublin, Perkasia, and Sellersville, and the townships of Bedminster, East Rockhill, Hilltown, and West Rockhill.

Figure 1.1 Pennridge School District



Source: <https://schooldistrictmap.org/pennridge/>

Population

The total population of the school district grew from 38,678 in 1990 to 51,752 in 2020 or an increase of 33.8 percent. The rate of growth was largest in the 2000s when the district's population grew by 5,540 residents or 12.9 percent. Double digit growth

Pennridge School District

Hilltown Township accounts for the majority of district residents and population growth since 1990, growing from 10,582 persons to 16,284 persons in 2020. Bedminster, Dublin and East Rockhill also showed continued growth throughout the period, while Perkasia, Sellersville, Silverdale and West Rockhill had declines in some decades. All but Silverdale have a net increase from 1990-2020.

Table 1.1 Population Trend 1990 to 2020

	Population			
	1990	2000	2010	2020
Bedminster Township	4,602	4,804	6,574	7,541
Dublin Borough	1,985	2,083	2,158	2,177
East Rockhill Township	3,753	5,199	5,706	5,819
Hilltown Township	10,582	12,102	15,029	16,284
Perkasie Borough	7,878	8,828	8,511	9,120
Sellersville Borough	4,479	4,564	4,249	4,567
Silverdale Borough	881	1,001	871	805
West Rockhill Township	4,518	4,233	5,256	5,439
Pennridge SD	38,678	42,814	48,354	51,752
Bucks County	541,174	597,635	625,249	646,538

	Population Change			
	1990 - 2000	2000 - 2010	2010 - 2020	1990 - 2020
Bedminster Township	202	1,770	967	2,939
Dublin Borough	98	75	19	192
East Rockhill Township	1,446	507	113	2,066
Hilltown Township	1,520	2,927	1,255	5,702
Perkasie Borough	950	-317	609	1,242
Sellersville Borough	85	-315	318	88
Silverdale Borough	120	-130	-66	-76
West Rockhill Township	-285	1,023	183	921
Pennridge	4,136	5,540	3,398	13,074
Bucks County	56,461	27,614	21,289	105,364

	Population Percent Change			
	1990 - 2000	2000 - 2010	2010 - 2020	1990 - 2020
Bedminster Township	4.4%	36.8%	14.7%	63.9%
Dublin Borough	4.9%	3.6%	0.9%	9.7%
East Rockhill Township	38.5%	9.8%	2.0%	55.0%
Hilltown Township	14.4%	24.2%	8.4%	53.9%
Perkasie Borough	12.1%	-3.6%	7.2%	15.8%
Sellersville Borough	1.9%	-6.9%	7.5%	2.0%
Silverdale Borough	13.6%	-13.0%	-7.6%	-8.6%
West Rockhill Township	-6.3%	24.2%	3.5%	20.4%
Pennridge	10.7%	12.9%	7.0%	33.8%
Bucks County	10.4%	4.6%	3.4%	19.5%

Pennridge School District

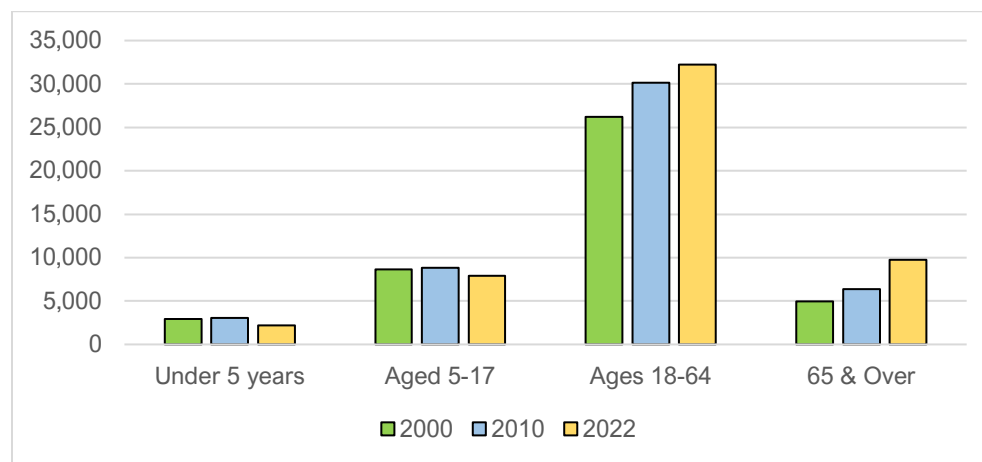
As the district's total population has grown, its age distribution has shifted slightly. Notably, increases among the 65 and over population have been a main driver of growth. The number of those 65 and over has nearly doubled since 2000, increasing by 4,742. The working age population (ages 18 to 64) has also risen over the same period, growing by 6,003 or 22.9. The district's population of residents below 5 years of age has decreased by 773 children since 2000, and the population aged 5 to 17 years (school aged children) has fallen by 760 during the same time period.

Table 1.2 Population Trends by Age Cohort 2000 to 2022¹

Age Group	Total Population				Percent of Total		
	2000	2010	2022	Change 2000 - 2022	2000	2010	2022
Under 5 years	2,948	3,024	2,175	-773	6.9	6.3	4.2
Aged 5-17	8,645	8,822	7,885	-760	20.2	18.2	15.2
Ages 18-64	26,237	30,164	32,240	6,003	61.3	62.4	62.0
65 & Over	4,984	6,344	9,726	4,742	11.6	13.1	18.7
Total	42,814	48,354	52,026	9,212	100.0	100.0	100.0

	Total Change				Percent Change		
		2000 to 2010	2010 to 2022	2000 to 2022	2000 to 2010	2010 to 2022	2000 to 2022
Under 5 years		76	-849	-773	2.6	-28.1	-26.2
Aged 5-17		177	-937	-760	2.0	-10.6	-8.8
Ages 18-64		3,927	2,076	6,003	15.0	6.9	22.9
65 & Over		1,360	3,382	4,742	27.3	53.3	95.1
Total		5,540	3,672	9,212	12.9	7.6	21.5

Figure 1.2 Population by Age Group 2010 to 2022



¹ Detailed population-by-age breakdowns of the United States 2020 Census have not yet been released at the time of this report. This table uses 2018-2022 American Community Survey estimates.

Pennridge School District

District enrollments as a percentage of the age 5-17 population cohort have increased from 79.3 percent in 2000 to 82.9 percent in 2022.

Table 1.3 Population by Age Group, October 1 Enrollments 2010 to 2022

	2000	2010	2022	Change 2000 - 2022	
				#	%
Population 5-17	8,645	8,822	7,885	-760	-8.8
Oct 1 Enrollment	6,852	7,248	6,540	-312	-4.6
Enrollment % of Population	79.3	82.2	82.9		

Housing

The district's housing stock grew by 6,124 units (42.6 percent) since 1990 to an estimated 20,500 units in 2022. Most of the district's housing unit growth has occurred in Hilltown Township which added 2,450 units from 1990 to 2022 including over 1200 from 2000 to 2010.

Table 1.4 Housing Unit Trends, 2000 – 2022

	Total Housing Units					Percent of Total			
	1990	2000	2010	2022	Change 1990 - 2022	1990	2000	2010	2022
Bedminster Twp	1,733	1,868	2,561	2,732	999	12.1	11.5	13.5	13.3
Dublin Borough	840	869	959	1,023	183	5.8	5.4	5.0	5.0
East Rockhill Twp	1,359	1,883	2,120	2,254	895	9.5	11.6	11.2	11.0
Hilltown Twp	3,659	4,370	5,574	6,109	2,450	25.5	26.9	29.3	29.8
Perkasie Borough	3,089	3,378	3,396	3,637	548	21.5	20.8	17.9	17.7
Sellersville Borough	1,703	1,827	1,804	1,810	107	11.8	11.3	9.5	8.8
Silverdale Borough	309	329	327	353	44	2.1	2.0	1.7	1.7
West Rockhill Twp	1,684	1,701	2,267	2,582	898	11.7	10.5	11.9	12.6
School District Total	14,376	16,225	19,008	20,500	6,124	100.0	100.0	100.0	100.0
Bucks County	199,934	225,498	245,956	257,272	57,338				
	Total Change					Percentage Change			
	1990 - 2000	2000 - 2010	2010 - 2022	1990 - 2022		1990-2000	2000 - 2010	2010 - 2022	1990-2022
Bedminster Twp	135	693	171	999		7.8	37.1	6.7	57.6
Dublin Borough	29	90	64	183		3.5	10.4	6.7	21.8
East Rockhill Twp	524	237	134	895		38.6	12.6	6.3	65.9
Hilltown Twp	711	1,204	535	2,450		19.4	27.6	9.6	67.0
Perkasie Borough	289	18	241	548		9.4	0.5	7.1	17.7
Sellersville Borough	124	-23	6	107		7.3	-1.3	0.3	6.3
Silverdale Borough	20	-2	26	44		6.5	-0.6	8.0	14.2
West Rockhill Twp	17	566	315	898		1.0	33.3	13.9	53.3
School District Total	1,849	2,783	1,492	6,124		12.9	17.2	7.8	42.6
Bucks County	25,564	20,458	11,316	57,338		12.8	9.1	4.6	28.7

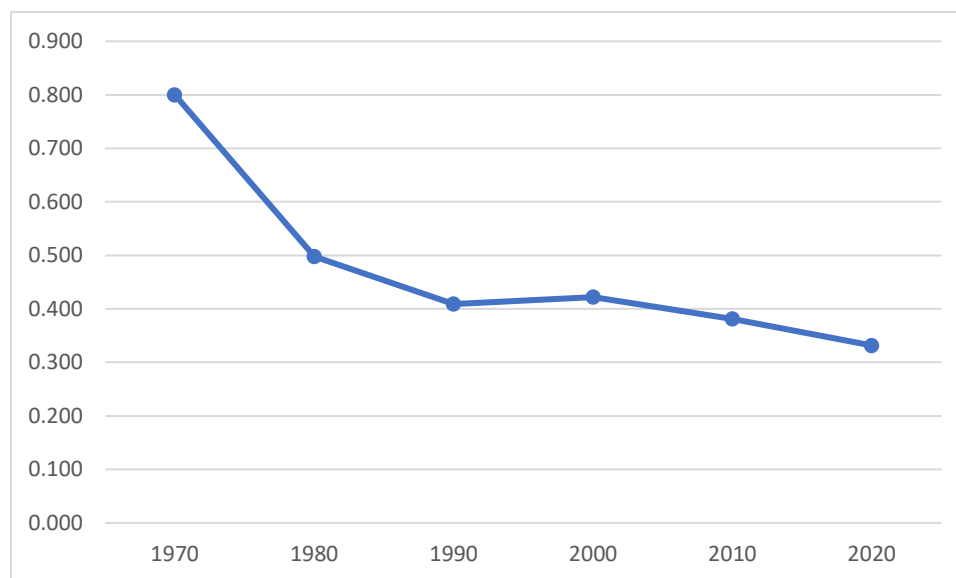
Pennridge School District

The relationship between housing units and district enrollments has been on a downward trend since 1970, decreasing overall from 0.80 pupils per unit in 1970 to 0.332 units per unit in 2020.

Table 1.5 Relationship of Public School Enrollments to Housing Units

	1970	1980	1990	2000	2010	2022
Housing Units	8,272	10,889	14,376	16,225	19,008	20,500
District Enrollments	6,614	5,416	5,877	6,852	7,248	6,797
Pupils per Unit	0.800	0.497	0.409	0.422	0.381	0.332

Figure 1.3 Relationship of Public School Enrollments to Housing Units



Municipal officials were canvassed as to the approved and proposed development activities in their towns and the **Bucks County Planning Commission Development Map (Proposed Development/Subdivision)**² was reviewed for additional information. The following tables break down the proposed housing activity by municipality for the following Plan Types: Table 1.6, Final; Table 1.7, Preliminary; and Table 1.8, Sketch/Tentative.

Final Plans since 2017 show a total of 41 proposed units, including 18 single family units and 23 attached units, with 27 of those units in Perkasi.

²

<https://bucksgis.maps.arcgis.com/apps/webappviewer/index.html?id=f58e99f72c4241ebbe309e08d6e42198>

Pennridge School District

Preliminary plans for various types of residential housing since 2017 total 974 units. Significant proposed units in East Rockhill are 224; West Rockhill, 216; Perkasio, 188; and Dublin, 182. The district should monitor the progress of these developments as they can alter the attendance at a particular school.

Sketch plans propose a total of 338 new units. Significant proposed units include Sellersville, 115 multifamily units proposed and Dublin, 72 multifamily units.

Per the district a new development on Bethlehem Pike will be added to the West Rockhill and South Middle School attendance area.

Table 1.6 Residential Subdivisions and Other Housing Activity Designated as Final Plan as of September 2024

Municipality	Description	# Prop	2017	2018	2019	2020	2021	2022	2023	2024	Grand Total	Total Units
Hilltown Twp	Single-family lots	2	1	--	1	--	--	1	1	1	5	10
Perkasie	Single-family lots	2	--	1	--	--	--	--	1	--	2	4
Perkasie	Attached units	23	--	--	1	--	--	--	--	--	1	23
West Rock Hill Twp	Single-family lots	2	--	1	1	--	--	--	--	--	2	4
	Total	29	1	2	3	0	0	1	2	1	10	41

Table 1.6 Residential Subdivisions and Other Housing Activity Designated as Preliminary as of September 2024

Municipality	Description	# Prop	2017	2018	2019	2020	2021	2022	2023	2024	Grand Total	Total Units
Bedminster	Single-family homes	14	--	--	--	1	--	--	--	--	1	14
Bedminster	Single-family lots	2	--	--	--	--	--	1	--	1	2	4
Bedminster	Single-family lots	3	--	--	--	--	--	1	--	--	1	3
Bedminster	Single-family lots	5	--	--	--	--	1	--	--	--	1	5
Bedminster	Single-family lots	3	--	--	--	--	--	--	1	--	1	3
	Bedminster Total	27	0	0	0	1	1	2	1	1	6	29
Dublin	Multifamily Units	24	--	--	--	--	--	--	--	1	1	24
Dublin	Multi-family units	78	--	--	--	--	--	1	--	--	1	78
Dublin	Semi-detached units	80	--	--	1	--	--	--	--	--	1	80
	Dublin Total	182	0	0	1	0	0	1	0	1	3	182
East Rockhill Twp	Single-family lots	3	--	--	1	--	--	--	--	--	1	3
East Rockhill Twp	Single-family lots	198	--	--	--	--	1	--	--	--	1	198
East Rockhill Twp	Single-family lots	2	1	--	--	--	--	--	--	--	1	2
East Rockhill Twp	Single-family lots	21	--	--	--	--	1	--	--	--	1	21
	East Rockhill Total	224	1	0	1	0	2	0	0	0	4	224
Hilltown Twp	Single-family lot	1	--	--	--	--	--	1	--	--	1	1
Hilltown Twp	Single-family lots	15	1	--	--	--	--	--	--	--	1	15
Hilltown Twp	Single-family lots	2	3	2	1	2	5	1	1	--	14	30
Hilltown Twp	Single-family lots	3	1	--	--	--	--	--	--	--	1	3

Pennridge School District

Hilltown Twp	Single-family lots	5	--	1	--	--	1	--	--	--	2	10
Hilltown Twp	Single-family lots	6	--	--	--	1	--	--	--	--	1	6
Hilltown Twp	Single-family lots	7	--	--	--	--	1	--	--	--	1	7
Hilltown Twp	Single-family lots	8	--	1	--	--	--	--	--	--	1	8
Hilltown Twp	Single-family Units	2	1	--	--	--	--	--	--	--	1	2
	Hilltown Twp Total	51	6	4	1	3	7	2	1	0	24	82
Perkasie	Attached Units	10	--	1	--	--	--	--	--	--	1	10
Perkasie	Attached units;	28	--	--	--	--	--	1	--	--	1	28
Perkasie	Multi-family units	98	--	--	--	--	1	--	--	--	1	98
Perkasie	Multi-family units	21	--	--	--	--	--	1	--	--	1	21
Perkasie	Single-family Lots	10	--	--	1	--	--	--	--	--	1	10
Perkasie	Single-family lots	2	--	--	--	--	1	--	--	--	1	2
Perkasie	Single-family lots	3	--	--	--	1	--	--	--	--	1	3
Perkasie	Single-family lots	8	--	--	--	2	--	--	--	--	2	16
	Perkasie Total	180	0	1	1	3	2	2	0	0	9	188
Silverdale Borough	Attached units	51	--	--	--	--	--	--	--	1	1	51
Silverdale Borough	Single-family lots;	2	--	--	--	--	--	--	--	1	1	2
	Silverdale Total	53	--	--	--	--	--	--	--	2	2	53
West Rock Hill Twp	Attached Units	25	--	--	--	--	--	--	1	--	1	25
West Rock Hill Twp	Attached units (age qualified)	73	--	--	--	--	1	--	--	--	1	73
West Rock Hill Twp	Residential lot	1	--	--	--	--	--	--	1	--	1	1
West Rock Hill Twp	Single-family lots	2	2	1	--	--	1	--	1	--	5	10
West Rock Hill Twp	Single-family lots	6	--	1	--	--	--	--	--	--	1	6
West Rock Hill Twp	Single-family lots	7	--	--	--	--	1	--	--	--	1	7
West Rock Hill Twp	Single-family lots	75	--	--	--	--	--	--	1	--	1	75
West Rock Hill Twp	Single-family lots	8	--	--	--	1	--	--	--	--	1	8
West Rock Hill Twp	Single-family lots	9	--	--	--	--	--	--	--	1	1	9
West Rock Hill Twp	Single-family lots	2	--	--	1	--	--	--	--	--	1	2
	West Rock Hill Total	208	2	2	1	1	3	0	4	1	14	216
	Grand Total	925	9	7	5	8	15	7	6	5	62	974

**Table 1.6 Residential Subdivisions and Other Housing Activity
Designated as Sketch/Tentative as of September 2024**

Municipality	Description	# Prop	2021	2022	2023	2024	Grand Total	Total Units
Bedminster	Single-family lots	2	--	--	1	--	1	2
	Bedminster Total	2	0	0	1	0	1	2
Dublin	Multi-family units	72	--	1	--	--	1	72
	Dublin Total	72	0	1	0	0	1	72
Hilltown Twp	Attached Units	16	--	--	1	--	1	16
Hilltown Twp	Attached Units	24	--	--	--	1	1	24
Hilltown Twp	Single-family lots	6	1	--	--	--	1	6
	Hilltown Twp Total	46	1	0	1	1	3	46
Perkasie	1 Single-family lot	1	--	1	--	--	1	1
	Perkasie Total	1	0	1	0	0	1	1
Sellersville	Multi-family units	115	--	1	--	--	1	115
	Sellersville Total	115	0	1	0	0	1	115
West Rock Hill Twp	Single-family lots	14	--	--	1	--	1	14
West Rock Hill Twp	Single-family lots	88	--	--	1	--	1	88
	West Rock Hill Total	102	0	0	2	0	2	102
Grand Total		338	1	3	4	1	9	338

Pennridge School District

Birth Patterns

The annual number of resident births in the Pennridge School District is a significant factor for the enrollment projection process and ultimately the planning processes of a district. Furthermore, birth data can include notable year-to-year volatility that can sometimes obscure trends. Births in the Pennridge School District have been on a slow decline since 1990. Live district births totaled 5,960 in the 1990s, 5,616 in the 2000s, and 4,762 between 2010 and 2019.

Table 1.6 Comparison of Birth Trends Pennridge School District and Bucks County 1990 to 2023³

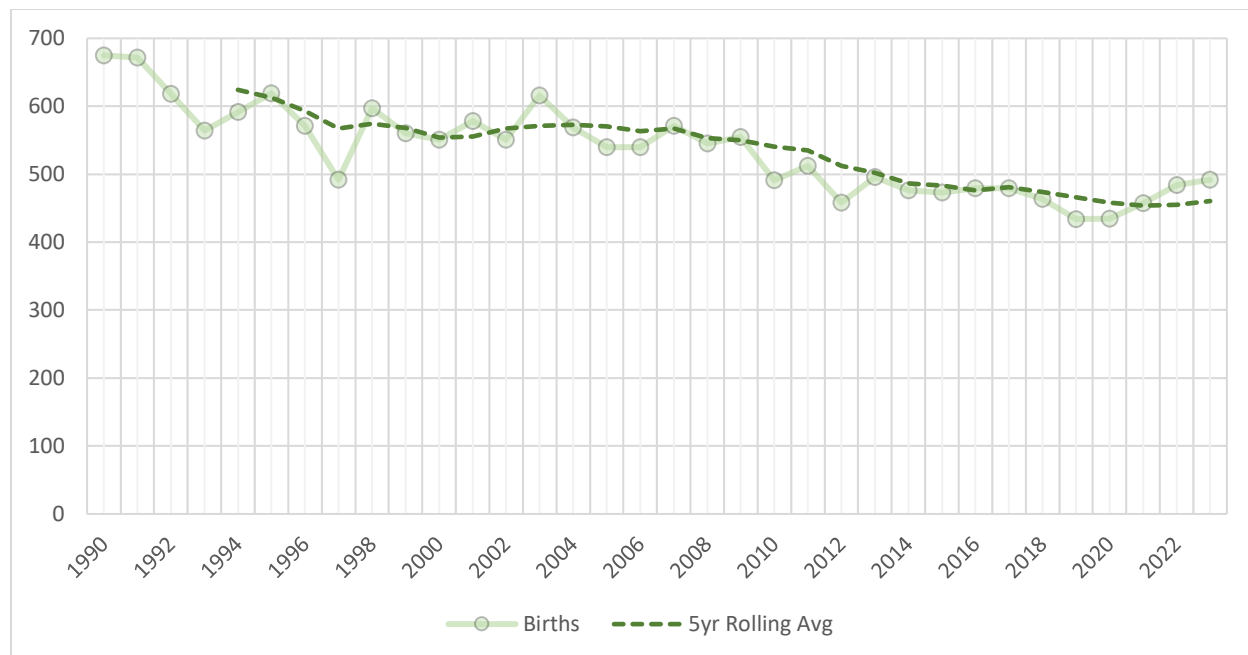
Year	Pennridge School District			Bucks County			PSD % of County
	Births	Year to Year Change #	%	Births	Year to Year Change #	%	
1990	675			8,038			8.4
1991	672	-3	-0.4	7,780	-258	-3.2	8.6
1992	618	-54	-8.0	7,407	-373	-4.8	8.3
1993	564	-54	-8.7	7,432	25	0.3	7.6
1994	592	28	5.0	7,335	-97	-1.3	8.1
1995	619	27	4.6	7,420	85	1.2	8.3
1996	571	-48	-7.8	7,320	-100	-1.3	7.8
1997	492	-79	-13.8	7,121	-199	-2.7	6.9
1998	597	105	21.3	7,269	148	2.1	8.2
1999	560	-37	-6.2	7,313	44	0.6	7.7
2000	551	-9	-1.6	7,254	-59	-0.8	7.6
2001	578	27	4.9	7,184	-70	-1.0	8.0
2002	551	-27	-4.7	6,896	-288	-4.0	8.0
2003	616	65	11.8	7,052	156	2.3	8.7
2004	569	-47	-7.6	6,822	-230	-3.3	8.3
2005	540	-29	-5.1	6,873	51	0.7	7.9
2006	540	0	0.0	6,936	63	0.9	7.8
2007	571	31	5.7	6,862	-74	-1.1	8.3
2008	545	-26	-4.6	6,592	-270	-3.9	8.3
2009	555	10	1.8	6,022	-570	-8.6	9.2
2010	491	-64	-11.5	5,779	-243	-4.0	8.5
2011	512	21	4.3	5,758	-21	-0.4	8.9
2012	458	-54	-10.5	5,442	-316	-5.5	8.4
2013	496	38	8.3	5,709	267	4.9	8.7
2014	476	-20	-4.0	6,041	332	5.8	7.9
2015	473	-3	-0.6	5,770	-271	-4.5	8.2
2016	479	6	1.3	5,988	218	3.8	8.0
2017	479	0	0.0	5,778	-210	-3.5	8.3
2018	464	-15	-3.1	5,712	-66	-1.1	8.1
2019	434	-30	-6.5	5,602	-110	-1.9	7.7
2020	435	1	0.2	5,461	-141	-2.5	8.0
2021	457	22	5.1	5,812	351	6.4	7.9
2022	484	27	5.9	5,595	-217	-3.7	8.7
2023*	492	8	1.7	5,529	-66	-1.2	8.9
1990-99	5,960			74,435			2.9
2000-09	5,616	-344	-5.8	68,493	-5,942	-8.0	2.8
2010-19	4,762	-854	-15.2	57,579	-10,914	-15.9	2.8

³ Source: State Health Data Center, Pennsylvania Department of Health, Harrisburg, Pennsylvania. The Department specifically disclaims responsibility for any analyses, interpretations, or conclusions. Highest and lowest yearly birth figures for the district and county highlighted in blue and green, respectively. Preliminary birth data recorded for 2020 and 2021.

Pennridge School District

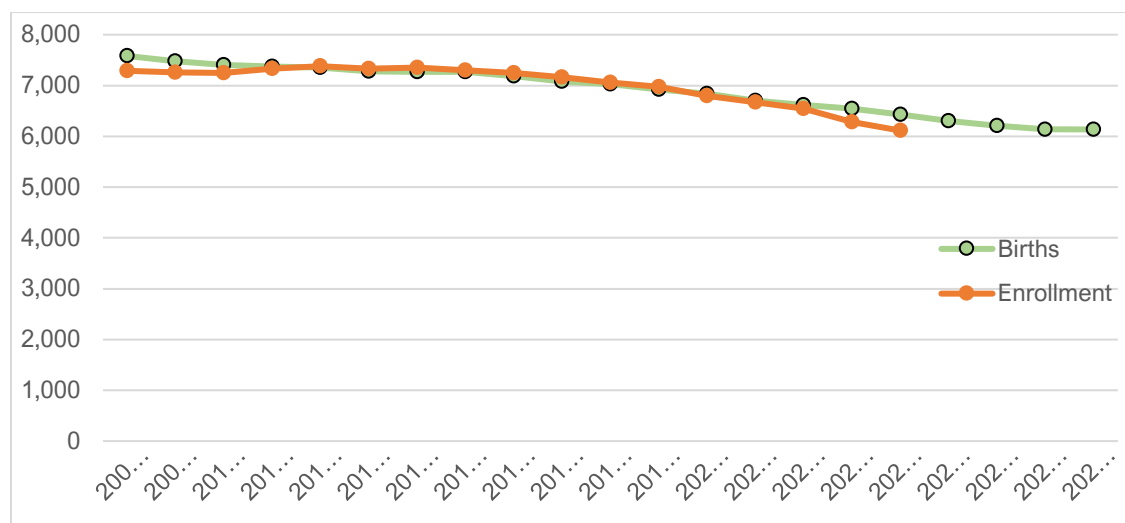
Figure 1.4 shows that the trajectory of district births, when viewed on a five-year average perspective, have been declining since 1990 despite the year-to-year volatility. Rolling 5-year averages ranged from a high of 624 in 1994 to a low of 454 in 2021.

Figure 1.4 Birth Trends in the Pennridge SD School District



Rolling 13-year cumulative births can be compared to their corresponding school year as a proxy for total possible enrollment before the effects of migration and other educational programs are considered. For example, the 2021-22 school year corresponds with births during the years 2004 through 2016. Rolling 13-year cumulative births hit a low of 6,138 for the years associated with the 2027-28 school year.

Figure 1.5 Cumulative Births by Corresponding School Year



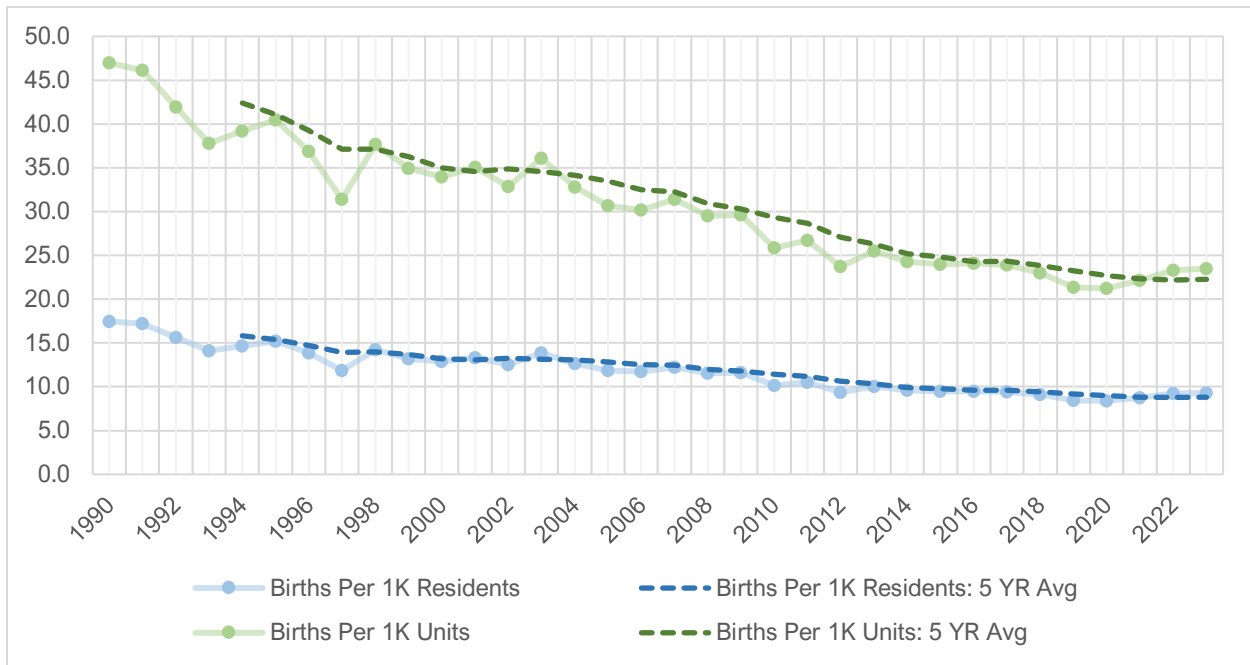
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Birth rates as a function of total population and total housing units have been on a slow decline, which partially counteracts the impact of population and housing growth on future enrollments. District births per 1,000 residents have declined from 17.5 per thousand in 1990 to a low of 8.4 in 2020. On a per-1,000 housing unit basis, birth rates have declined from 47.0 to a 21.2 over the same time period.

This downward trend shows some signs of reversing. Consider that in 2022 there were 484 births in the district based on Pennsylvania Department of Health preliminary statistics. Births reached a low point of 434 in 2019. Since then, the births have increased annually with 2023 at 492. This is a trend that should be monitored.

Table 1.7 Estimated Births Per 1,000 Residents and Per 1,000 Housing Units

Year	Births	Pop Estimate	Units Estimate	Births Per 1K Residents	Births Per 1K Residents: 5 YR Avg	Births Per 1K Units	Births Per 1K Units: 5 YR Avg
1990	675	38,678	14,376	17.5		47.0	
1991	672	39,092	14,561	17.2		46.2	
1992	618	39,505	14,746	15.6		41.9	
1993	564	39,919	14,931	14.1		37.8	
1994	592	40,332	15,116	14.7	15.8	39.2	42.4
1995	619	40,746	15,301	15.2	15.4	40.5	41.1
1996	571	41,160	15,485	13.9	14.7	36.9	39.2
1997	492	41,573	15,670	11.8	13.9	31.4	37.1
1998	597	41,987	15,855	14.2	14.0	37.7	37.1
1999	560	42,400	16,040	13.2	13.7	34.9	36.3
2000	551	42,814	16,225	12.9	13.2	34.0	35.0
2001	578	43,368	16,503	13.3	13.1	35.0	34.6
2002	551	43,922	16,782	12.5	13.2	32.8	34.9
2003	616	44,476	17,060	13.9	13.2	36.1	34.6
2004	569	45,030	17,338	12.6	13.0	32.8	34.1
2005	540	45,584	17,617	11.8	12.8	30.7	33.5
2006	540	46,138	17,895	11.7	12.5	30.2	32.5
2007	571	46,692	18,173	12.2	12.5	31.4	32.2
2008	545	47,246	18,451	11.5	12.0	29.5	30.9
2009	555	47,800	18,730	11.6	11.8	29.6	30.3
2010	491	48,354	19,008	10.2	11.4	25.8	29.3
2011	512	48,694	19,157	10.5	11.2	26.7	28.6
2012	458	49,034	19,306	9.3	10.6	23.7	27.1
2013	496	49,373	19,456	10.0	10.3	25.5	26.3
2014	476	49,713	19,605	9.6	9.9	24.3	25.2
2015	473	50,053	19,754	9.4	9.8	23.9	24.8
2016	479	50,393	19,903	9.5	9.6	24.1	24.3
2017	479	50,733	20,052	9.4	9.6	23.9	24.3
2018	464	51,072	20,202	9.1	9.4	23.0	23.8
2019	434	51,412	20,351	8.4	9.2	21.3	23.2
2020	435	51,752	20,500	8.4	9.0	21.2	22.7
2021	457	52,092	20,649	8.8	8.8	22.1	22.3
2022	484	52,432	20,798	9.2	8.8	23.3	22.2
2023*	492	52,771	20,948	9.3	8.8	23.5	22.3

Figure 1.6 Estimated Births Per 1,000 Residents and Per 1,000 Housing Units

Migration Patterns

A comparison of birth and death trends to total population trends can provide an estimate of in-migration, another notable factor that can influence enrollment projections. Since 1990 the population of the Pennridge School District has grown by 13,074 people. During that same time, the district experienced net natural population growth each decade. Births exceeded deaths by over 3,366 in the 1990s whereas births only exceeded deaths by 2,626 and 986 in the 2000s and 2010s, respectively.

The difference between total population change and natural population change is the estimated net migration into or out of the district. Net migration was small in the 1990s at 770. In-migration to the district was much higher in the 2000s (+2,914) and the 2010s (+2,412), which is consistent with the other population and housing trends identified in this report.

Table 1.8 Resident Births, Deaths, and Population Change, 1990-2019

	1990 to 1999	2000 to 2009	2010 to 2019	1990 to 2019
Total Population (start)	38,678	42,814	48,354	38,678
Total Population (end)	42,814	48,354	51,752	51,752
Total Population Change (a)	4,136	5,540	3,398	13,074
Births	5,960	5,616	4,762	16,338
Deaths	2,594	2,990	3,776	9,360
Natural Pop. Change (b)	3,366	2,626	986	6,978
Net Migration (a minus b)	770	2,914	2,412	6,096

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The significance of migration for purposes of this examination lies in its effect on school-age children and the district's enrollments. It can be highlighted by using birth data and actual enrollment figures.

A review of the relationship between the Pennridge School District's pupil population and births in the district in the years corresponding to the ages of children in school (essentially, a surrogate for the number of school-age children) normally provides a perspective on the impact of migration.

A figure of greater than 100 percent indicates an enrollment that is higher than that resulting solely from the cumulative total of births in the district during the corresponding time period (due to net in-migration in this age grouping).

A figure of less than 100 percent indicates an enrollment that is lower than the cumulative number of births (due primarily to net out-migration and/or district children enrolling in schools and educational programs other than those operated directly by the school district (for example, private/parochial schools; home, charter, and/or cyber schools; perhaps full-time Career and Technical Center (CTC) programs; full-time Intermediate Unit and other special programs and classes; other out-of-district placements; etc.).

Table 1.9 Relationship of Pennridge SD and Other Enrollments to Cumulative Births in Corresponding Years

	Cumulative Births	Pennridge Enrollments		Other Enrollments		Total Enrollments	
		#	% of Cumulative Births	#	% of Cumulative Births	#	% of Cumulative Births
2020-21	6,842	6,797	99.3	1,308	19.1	8,150	119.1
2021-22	6,705	6,669	99.5	1,341	20.0	8,046	120.0
2022-23	6,615	6,540	98.9	1,443	21.8	8,058	121.8
2023-24	6,539	6,285	96.1	1,509	23.1	8,048	123.1

Cumulative births represent the sum of births for the 13-year period corresponding to the school year. For example, pupils in school year 2020-21 reflect births during the years 2004 through 2016.

Pennridge enrollment numbers are based on October 1 figures as provided by the district for each year and reflect all regular classroom pupils, as well as district children enrolled in the half-day program offered by the Upper Bucks County Technical School and district special education pupils educated in district classrooms. Excluded are district children participating in the joint cyber/charter program (Bridges), the joint alternative education program, and the Ombudsman Academy; those in full-time Intermediate Unit programs conducted outside the district's classrooms; and resident children in juvenile correction facilities, other institutions, and other out-of-district placements, etc. As such, the figures are limited to Pennridge pupils in the district's 11 buildings.

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Other Enrollments include children in Pennridge who were reported to be in home schools, cyber schools, and charter schools (except those participating in the district’s cyber/charter program) and district children enrolled in private/parochial schools who are transported by the district (and perhaps some who are not transported).

Changes in enrollments by grade in the Pennridge School District can reflect many factors in addition to migration; for example, shifts to and from private/parochial and other schools, special classes, and other educational programs not provided directly by Pennridge; changes in promotional and other internal district policies; withdrawals—particularly in the high school grades, etc.

Pennridge enrollments as a percentage of estimated total district enrollments has been trending downward from a high of 101.3 percent in 2014-15 to 95.0 percent in 2024-25.

Table 1.9 Relationship of Pennridge SD to Cumulative Births in Corresponding Years

	Cumulative Births	Pennridge Enrollments	
		#	% of Cumulative Births
2013-14	7,281	7,333	100.7
2014-15	7,265	7,357	101.3
2015-16	7,264	7,297	100.5
2016-17	7,179	7,251	101.0
2017-18	7,077	7,158	101.1
2018-19	7,022	7,058	100.5
2019-20	6,920	6,970	100.7
2020-21	6,842	6,797	99.3
2021-22	6,705	6,669	99.5
2022-23	6,615	6,540	98.9
2023-24	6,539	6,285	96.1
2024-25	6,433	6,112	95.0

Enrollment Changes by Grade and Class

The following two tables show the progression of students through the school years 2010-11 through 2024-25. The highlights follow the same cohort of pupils through the years. When comparing class sizes to the prior year and grade, enrollment gains are most notable in the first grade, but positive gains are typical throughout the elementary grade levels. The district also averages

Pennridge School District

consistent student additions in the seventh and ninth grades. This concept will be further explored through the “grade progression ratio” perspective in the next chapter.

Table 1.11 Total Enrollments by Grade, 2010-10 to 2024-25

Year	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2010-11	451	559	475	568	562	594	532	568	579	618	564	567	611	7,248
2011-12	455	555	578	489	580	580	605	555	580	592	618	561	584	7,332
2012-13	411	574	581	600	499	579	593	630	559	586	584	616	567	7,379
2013-14	438	557	518	591	591	611	524	597	593	622	554	575	562	7,333
2014-15	432	542	566	523	604	597	623	542	599	596	599	564	570	7,357
2015-16	409	519	546	574	532	603	605	617	540	596	591	610	555	7,297
2016-17	386	515	517	562	575	531	611	601	626	545	603	580	599	7,251
2017-18	367	468	542	535	565	578	534	620	594	637	540	603	575	7,158
2018-19	384	468	476	525	529	569	586	545	624	582	622	546	602	7,058
2019-20	388	495	457	480	544	530	567	586	551	613	596	619	544	6,970
2020-21	376	437	474	436	470	536	522	570	580	557	615	586	638	6,797
2021-22	362	478	445	465	449	468	547	523	564	587	564	629	588	6,669
2022-23	379	450	485	449	466	449	463	550	530	565	571	562	621	6,540
2023-24	358	454	442	483	452	485	433	461	540	520	557	559	541	6,285

Table 1.12 Change in Enrollments by Class, 2010-11 to 2024-25

Year	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12	K-PY12	Total Chg
2011-12	104	19	14	12	18	11	23	12	13	0	-3	17	240	-156	84
2012-13	119	26	22	10	-1	13	25	4	6	-8	-2	6	220	-173	47
2013-14	146	-56	10	-9	112	-55	4	-37	63	-32	-9	-54	83	-129	-46
2014-15	104	9	5	13	6	12	18	2	3	-23	10	-5	154	-130	24
2015-16	87	4	8	9	-1	8	-6	-2	-3	-5	11	-9	101	-161	-60
2016-17	106	-2	16	1	-1	8	-4	9	5	7	-11	-11	123	-169	-46
2017-18	82	27	18	3	3	3	9	-7	11	-5	0	-5	139	-232	-93
2018-19	101	8	-17	-6	4	8	11	4	-12	-15	6	-1	91	-191	-100
2019-20	111	-11	4	19	1	-2	0	6	-11	14	-3	-2	126	-214	-88
2020-21	49	-21	-21	-10	-8	-8	3	-6	6	2	-10	19	-5	-168	-173
2021-22	102	8	-9	13	-2	11	1	-6	7	7	14	2	148	-276	-128
2022-23	88	7	4	1	0	-5	3	7	1	-16	-2	-8	80	-209	-129
2023-24	75	-8	-2	3	19	-16	-2	-10	-10	-8	-12	-21	8	-263	-255
2024-25	76	6	-4	-5	10	0	1	10	-5	-15	-1	-6	67	-240	-173
Avg Change	98.0	0.8	4.0	4.5	11.5	-0.9	6.5	-1.8	6.1	-6.3	-0.8	-5.5	125.0	-184.0	-59.0
Years +	13	8	9	10	7	8	9	7	9	4	4	4	11	0	3
Year -	0	5	4	3	5	5	3	6	4	8	8	9	1	12	9

Another factor that can be an indicator of the pattern of future overall enrollments in a school district is the relationship between senior classes and the first grade classes that replace them in the following school year. For example, in the 2014-15 school year 519 first graders replaced 570 twelfth

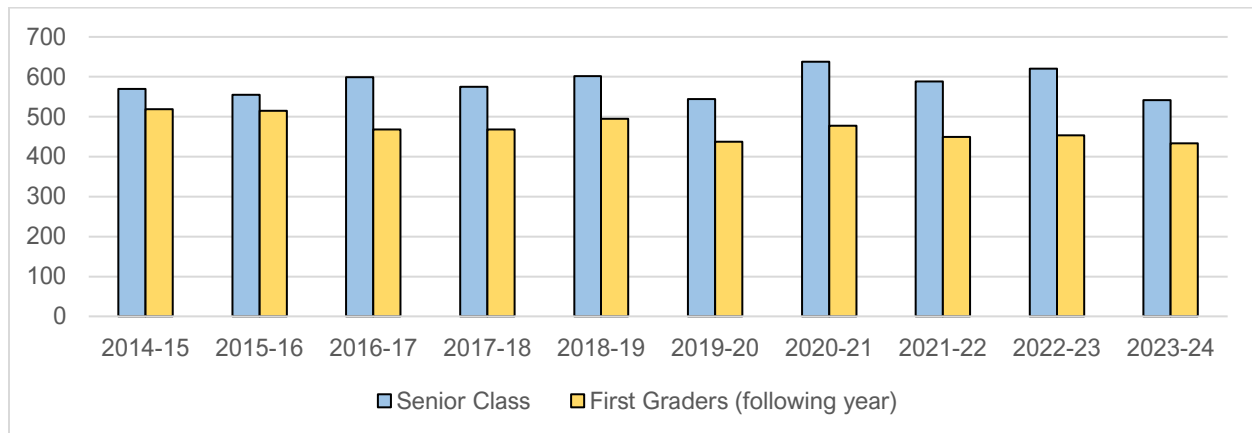
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graders from the prior school year, producing a net reduction of 51 pupils or 8.9 percent. Student count declines occurred in all years under this comparison.

Table 1.13 Relationship Between Senior Classes and Entering First Grade Classes in the Following Year, 2014-15 to 2023-24

Senior Class		First Grade Class		Change	
Year	Students	Year	Students	#	%
2014-15	570	2015-16	519	-51	-8.9
2015-16	555	2016-17	515	-40	-7.2
2016-17	599	2017-18	468	-131	-21.9
2017-18	575	2018-19	468	-107	-18.6
2018-19	602	2019-20	495	-107	-17.8
2019-20	544	2020-21	437	-107	-19.7
2020-21	638	2021-22	478	-160	-25.1
2021-22	588	2022-23	450	-138	-23.5
2022-23	621	2023-24	454	-167	-26.9
2023-24	541	2024-25	434	-107	-19.8

Figure 1.7 Relationship Between Senior Classes and Entering First Grade Classes in the Following Year, 2011-12 to 2021-22



Chapter 2

Enrollment Trends and Projections

Introduction

The Pennridge School District experienced continued enrollment decreases since the 2015-16 school year as total enrollments dropped from approximately 7,300 students to 6,112 for the 2024-25 school year. The current year (2024-25) enrollment is down in every grade level from the 2015-16 school year.

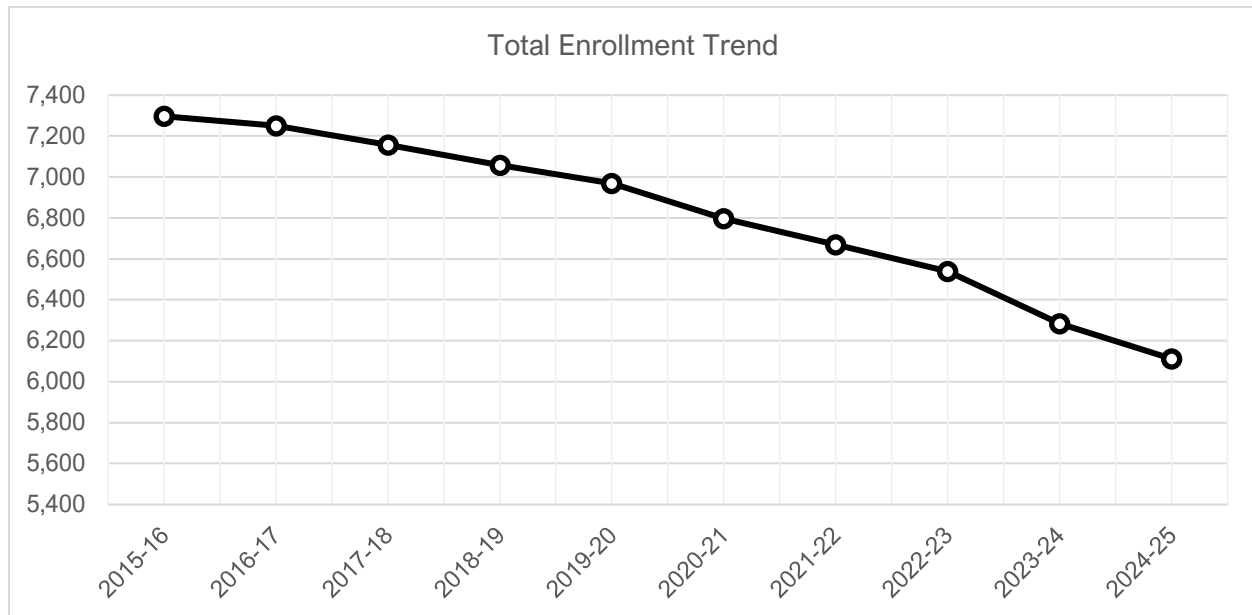
Unless otherwise stated, all historical enrollment data is based upon October 1 figures as provided by the school district.

Past Historical Trends

Enrollments in the Pennridge School District decreased from 2015-16 to 2024-25 by 1,185 students (16.2 percent), ending the ten-year period at a total pupil count of 6,112 students. Enrollments steadily decreased from the 2015-16 high of 7,297 students. The largest year-to-year decline during this period occurred from 2021-22 to 2023-24 with a loss of 255 students or 3.9 percent.

Table 2.1 Total Enrollments (Grades K-12) 2012-13 to 2021-22

School Year	Enrollment	Change	
		#	%
2015-16	7,297		
2016-17	7,251	-46	-0.6
2017-18	7,158	-93	-1.3
2018-19	7,058	-100	-1.4
2019-20	6,970	-88	-1.2
2020-21	6,797	-173	-2.5
2021-22	6,669	-128	-1.9
2022-23	6,540	-129	-1.9
2023-24	6,285	-255	-3.9
2024-25	6,112	-173	-2.8
Change 2012-13 to 2021-22		-1,185	-16.2

Figure 2.1 Total Enrollments (Grades K-12)

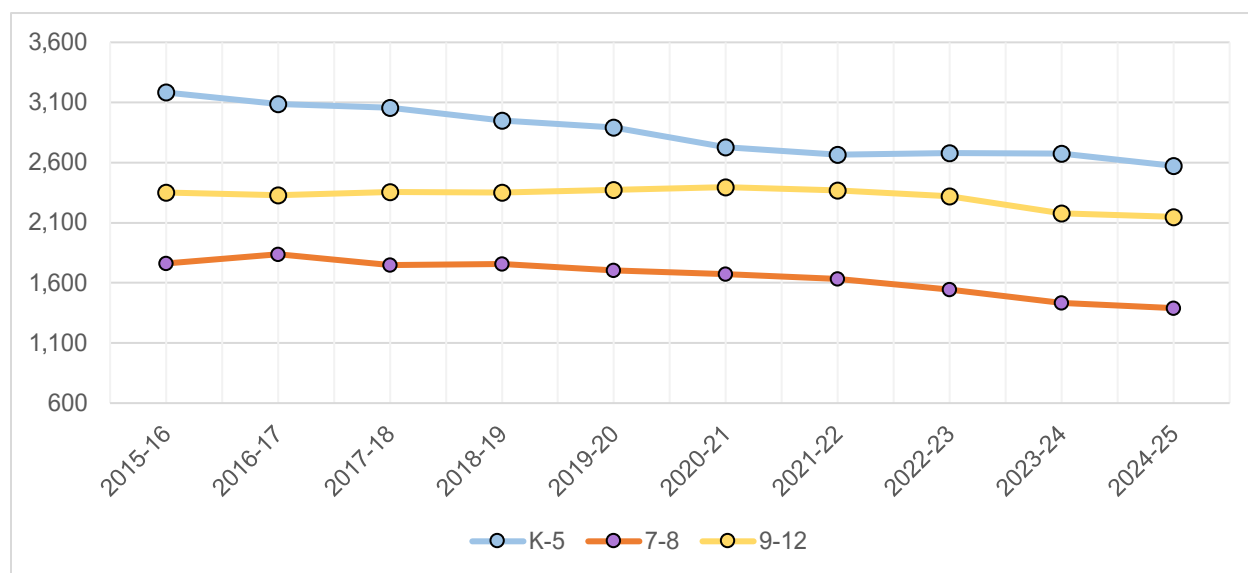
Enrollments by grade level are presented in Table 2.2 and Figure 2.2 below. K-5 enrollments fell from 3,183 in 2015-16 to a period-low 2,573 pupils in 2024-25. The only uptick in students occurred in 2022-23 when the enrollment increased by 11 students compared to the previous year.

Grades 6-8 enrollments peaked in 2016-17 at 1,838 with an addition of 76 students from the previous year. The only other year with growth was 2018-19 with an addition of 7 students. Middle school student count ended the ten-year historical period at 1,390 students, 372 students less than the 2015-16 school year.

High school enrollments fluctuated from 2016-17 to 2020-21, netting an additional 44 students; however, the last four years have decreased with the largest loss in the 2023-24 school year with a decline of 142 students (6.1 percent). High school enrollment was down to 2,149 students for the 2024-2025 school year or a net loss of 203 students or 8.6 percent.

Table 2.2 Enrollments by Grade Level 2015-16 to 2024-25

School Year	K-5	Change		6-8	Change		9-12	Change	
	Enrollment	#	%	Enrollment	#	%	Enrollment	#	%
2015-16	3,183			1,762			2,352		
2016-17	3,086	-97	-3.0	1,838	76	4.3	2,327	-25	-1.1
2017-18	3,055	-31	-1.0	1,748	-90	-4.9	2,355	28	1.2
2018-19	2,951	-104	-3.4	1,755	7	0.4	2,352	-3	-0.1
2019-20	2,894	-57	-1.9	1,704	-51	-2.9	2,372	20	0.9
2020-21	2,729	-165	-5.7	1,672	-32	-1.9	2,396	24	1.0
2021-22	2,667	-62	-2.3	1,634	-38	-2.3	2,368	-28	-1.2
2022-23	2,678	11	0.4	1,543	-91	-5.6	2,319	-49	-2.1
2023-24	2,674	-4	-0.1	1,434	-109	-7.1	2,177	-142	-6.1
2024-25	2,573	-101	-3.8	1,390	-44	-3.1	2,149	-28	-1.3
Change 2015-16 to 2024-25		-610	-19.2		-372	-21.1		-203	-8.6

Figure 2.2 Enrollments by Grade Level 2015-16 to 2024-25**Table 2.3 Total Enrollments by Grade, 2015-16 to 2024-25**

School Year	K	1	2	3	4	5	6	7	8	9	10	11	12	Total
2015-16	409	519	546	574	532	603	605	617	540	596	591	610	555	7,297
2016-17	386	515	517	562	575	531	611	601	626	545	603	580	599	7,251
2017-18	367	468	542	535	565	578	534	620	594	637	540	603	575	7,158
2018-19	384	468	476	525	529	569	586	545	624	582	622	546	602	7,058
2019-20	388	495	457	480	544	530	567	586	551	613	596	619	544	6,970
2020-21	376	437	474	436	470	536	522	570	580	557	615	586	638	6,797
2021-22	362	478	445	465	449	468	547	523	564	587	564	629	588	6,669
2022-23	379	450	485	449	466	449	463	550	530	565	571	562	621	6,540
2023-24	358	454	442	483	452	485	433	461	540	520	557	559	541	6,285
2024-25	301	434	460	438	478	462	485	434	471	535	505	556	553	6,112

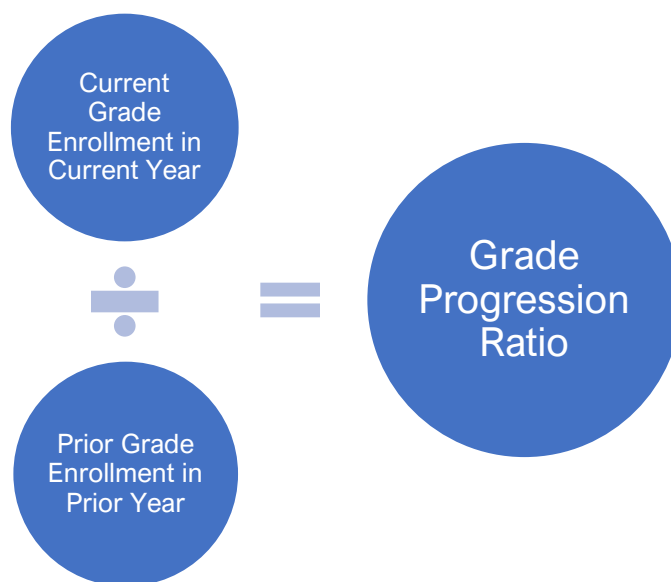
Grade Progression Ratio History

Enrollment projections for the Pennridge School District were prepared using the “grade progression” technique, which is based on the ratio of enrollments in a given grade in a given year to enrollments in the next lower grade in the preceding year.

The grade progression formula was developed by reviewing the recent experience in the district with respect to pupil progression and refining that information using the various demographic and housing data and the other indicators that were analyzed, as well as the expected impact of schools and educational programs other than those operated directly by the Pennridge School District.

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This approach is generally designed to detect such factors as in- or out-migration of pupils; transfers of pupils into and out of any special classes and programs, private/parochial and other schools, full-time CTC program, and/or any other educational programs not directly operated by the district; changes in promotional and other internal district policies; withdrawals—particularly in the high school grades; etc.



By way of example, if grade 2 enrollments were 98 in the 2018-19 school year and grade 1 had 100 pupils in the prior school year (2017-18), the grade progression ratio from grade 1 to grade 2 would be 0.98.

Ratios below 1.00 are indicative of net out-migration, transfers out of the school system or to special classes or programs, failure to promote pupils from the prior grade, and/or dropouts in the high school grades. Ratios above 1.00 usually indicate net in-migration, transfers into the school system from private/parochial and other schools or special classes and programs, and/or the failure to promote pupils to the next grade.

The district typically experiences a large enrollment increase in the first grade, which is common for districts that offer half-day kindergarten. Other enrollment increases are typically seen in grades five, seven, and eight. High school enrollment decreased in all grades in the last two years and show the same trend in the 3, 4 and 5 year averages.

The small below-neutral progression ratios continue through most of the district's recent enrollment history with the exception of the fifth, seventh and eighth grades.

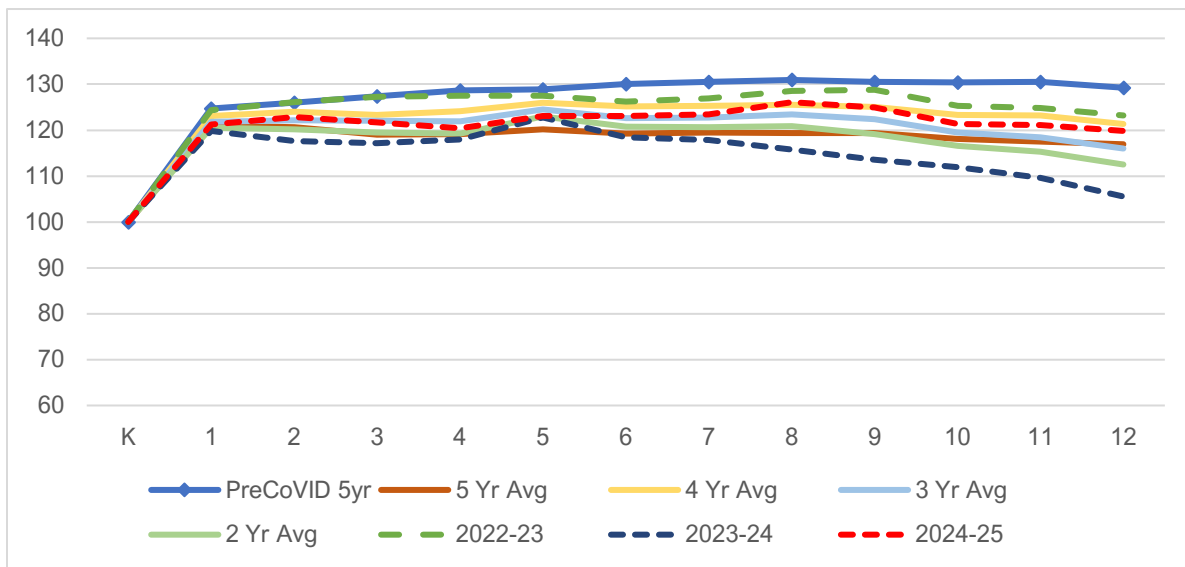
Table 2.4 Grade Progression Ratio by Grade Groupings

Grades	2020-21	2021-22	2022-23	2023-24	2024-25	5 Year Avg.	4 Year Avg.	3 Year Avg.	Pre Covid 5 year Avg.	2 Year Avg.
1/K	1.1263	1.2713	1.2431	1.1979	1.2123	1.2102	1.2311	1.2178	1.2475	1.2051
2/1	0.9576	1.0183	1.0146	0.9822	1.0132	0.9972	1.0071	1.0034	1.0099	0.9977
3/2	0.9540	0.9810	1.0090	0.9959	0.9910	0.9862	0.9942	0.9986	1.0111	0.9934
4/3	0.9792	1.0298	1.0022	1.0067	0.9896	1.0015	1.0071	0.9995	1.0099	0.9982
5/4	0.9853	0.9957	1.0000	1.0408	1.0221	1.0088	1.0147	1.0210	1.0021	1.0314
6/5	0.9849	1.0205	0.9893	0.9644	1.0000	0.9918	0.9936	0.9846	1.0085	0.9822
7/6	1.0053	1.0019	1.0055	0.9957	1.0023	1.0021	1.0013	1.0012	1.0038	0.9990
8/7	0.9898	0.9895	1.0134	0.9818	1.0217	0.9992	1.0016	1.0056	1.0033	1.0018
9/8	1.0109	1.0121	1.0018	0.9811	0.9907	0.9993	0.9964	0.9912	0.9968	0.9918
10/9	1.0033	1.0126	0.9727	0.9858	0.9712	0.9891	0.9856	0.9766	0.9989	0.9817
11/10	0.9832	1.0228	0.9965	0.9790	0.9982	0.9959	0.9991	0.9912	1.0012	0.9927
12/11	1.0307	1.0034	0.9873	0.9626	0.9893	0.9947	0.9856	0.9797	0.9904	0.9824
SUM	12.0104	12.3589	12.2353	12.0739	12.2016	12.1760	12.2174	12.1703	12.2834	12.1573

Using the grade-by-grade ratios for the 2021-22 school year (the highest aggregate figure during the five years reviewed), 100 children entering kindergarten this year would in theory increase to 124 first graders, 133 pupils in the sixth grade and increase further to 139 pupils in the twelfth grade. These outcomes contrast from those that would result from using the ratios from the 2020-21 school year—the lowest observation by total progression value—which would witness 100 kindergartener class fluctuate through ending with 100 12th graders.

In practice, enrollment projections typically utilize a three-, four-, or five-year average of grade progression ratios. The graphic below shows these averages as well as a look at Pre-Covid 5 year average growth, which includes school years 2015-2016 through 2019-2020.

Figure 2.3 Progression Examples of 100 Kindergarten Students under different Ratios



In practice, these patterns would not necessarily materialize as outlined due to changes in progression ratios over time. However, the theoretical impact of the progression ratios based on these points of reference reveals the effect of the migration of school-age children, transfers out of or into district classrooms, to or from private/parochial and other schools and special classes and programs, changes in promotional and other internal district policies, dropouts, and so forth. The pre-Covid progression was slightly higher.

Kindergarten Enrollment to Births Ratio History

Another vital enrollment projection input is ratio of kindergarten enrollments and resident births five years earlier. These ratios (or “cohort survival rates”) are analyzed and—along with the number of births in the district—are used to calculate future kindergarten enrollments. This approach, like the grade progression technique, detects net in- and out-migration and the impact of private/parochial and other schools as well as special classes and programs.

A figure below 1.0 suggests that kindergarten entries are lower than the number of births in the district five years earlier, indicating net out-migration in the pre-school ages and/or families opting to enroll their children in kindergarten classes or programs provided by entities other than the public school district. Conversely, a figure of greater than 1.0 suggests more kindergarten entries than births in the district five years earlier indicating in-migration of children that outweighs any role that non-district schools and educational programs and special classes and programs may play.

The best available source of data on births in the district is the annual compilations by the Pennsylvania Department of Health. However, it should be noted that birth figures for purposes of the projection model are based on the school year and age eligibility requirements rather than the calendar year as reported elsewhere in this study. Pennridge requires that children be five years of age by September 1 to enter kindergarten that year.

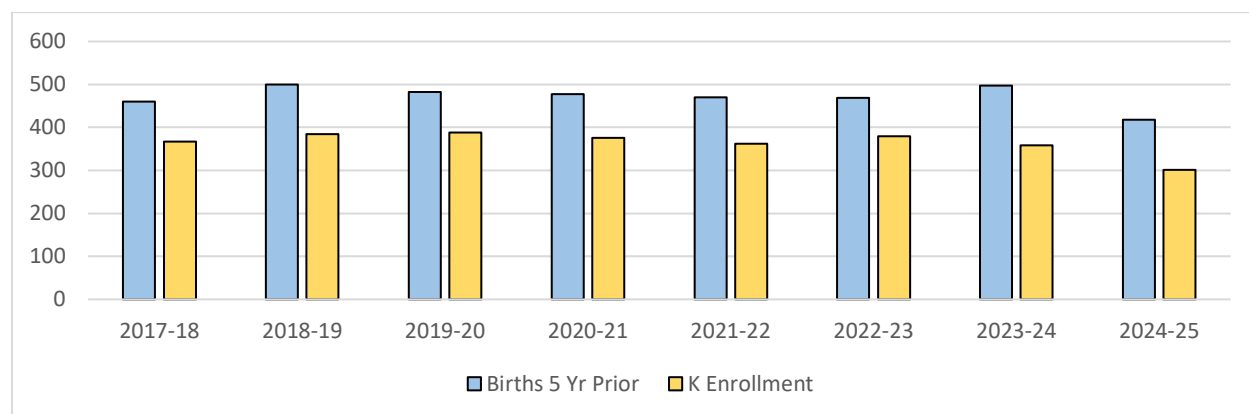
Pennridge School District

The ratio of kindergarten entries to births has fluctuated around 0.77 in the last several years. Put another way, the school district typically experiences four kindergarten enrollees for every five live births in the district for the corresponding time period.

Table 2.5 Ratios of Kindergarten Entries to Births

Birth Year	Births	School Year	Kindergarten Enrollments	Ratio
2011-12	460	2017-18	367	0.7978
2012-13	500	2018-19	384	0.7680
2013-14	483	2019-20	388	0.8033
2014-15	478	2020-21	376	0.7866
2015-16	470	2021-22	362	0.7702
2016-17	469	2022-23	379	0.8081
2017-18	497	2023-24	358	0.7203
2018-19	418	2024-25	301	0.7201
Average	472		364	0.7718

Figure 2.4 Total Enrollment Trends and Primary Projections 2017-18 to 2024-25



Enrollment Projections – Primary Period

The primary projection period’s methodology assumes overall migration and related patterns will remain consistent with recent trends, that the role of schools and educational programs other than those operated directly by Pennridge will be compatible with expected patterns, and that the district will continue its current practices relative to kindergarten, CTC, and special education programs and maintain other key programs, practices, and policies. Kindergarten entries are forecasted based on actual live birth data for district municipalities and the five-year average for births-to-kindergarten cohort survival rates. Four-year average grade progression ratios are used for grade progressions, as these ratios more closely match the pre-pandemic averages.

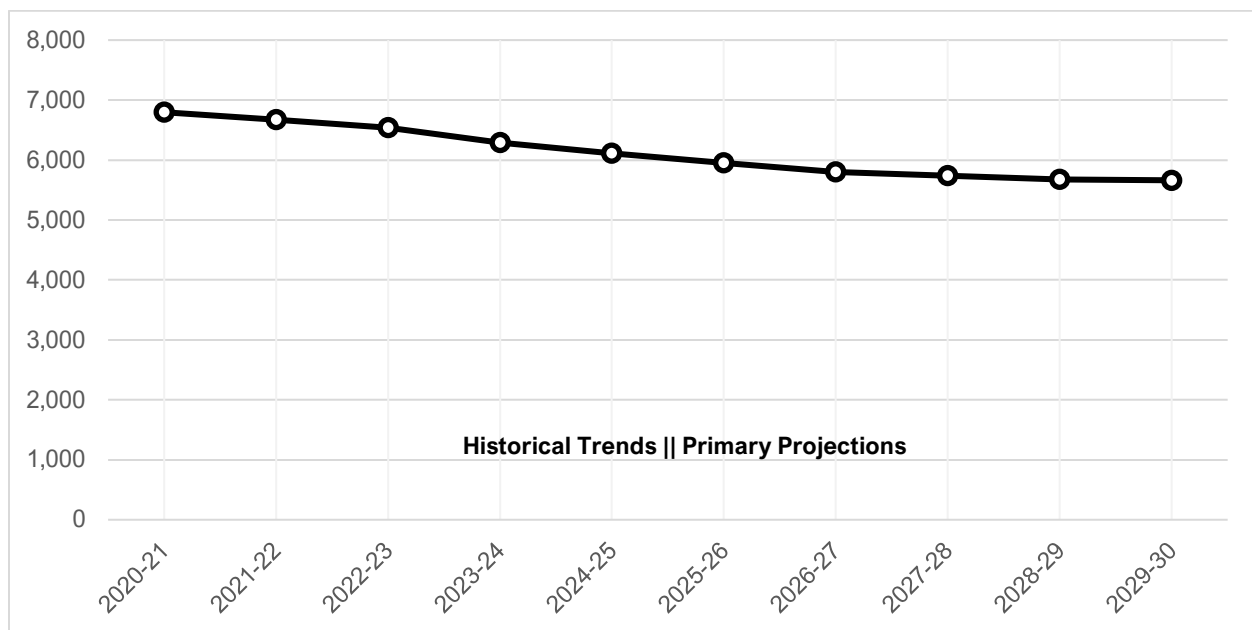
Pennridge School District

Primary projections anticipate continued losses in the district's total enrollment count, falling from the current enrollment of 6,112 to 5,662 in 2029-30, a net loss of 450 or 7.4 percent. The annual loss in students decreases from high of 160 to the low of 14 students in 2029-30.

Table 2.6 Total Enrollment Projections (Grades K-12) 2024-25 to 2029-30

School Year	Enrollment	Change	
		#	%
2024-25(actual)	6,112		
2025-26	5,952	-160	-2.6
2026-27	5,804	-148	-2.5
2027-28	5,741	-63	-1.1
2028-29	5,676	-65	-1.1
2029-30	5,662	-14	-0.2
Change 2021-22 to 2026-27		-450	-7.4

Figure 2.4 Total Enrollment Trends and Primary Projections 2020-21 to 2029-30



Projected enrollment patterns vary by grade level; the forecast suggests a decline in K-5 enrollments in 2025-26 and 2026-27 with net increases in 2027-28 through 2029-30 losing a total of 95 or 3.7 percent. Middle school enrollments fluctuate, losing 39 students in the 5 year period. High school declines over the same time period before seeing an addition of 14 in 2029-30 as shown in Table 2.7 below.

Table 2.7 Projected Enrollments by Grade Level 2020-21 to 2029-30

School Year	K-5	Change		6-8	Change		9-12	Change	
	Enrollment	#	%	Enrollment	#	%	Enrollment	#	%
2024-25	2,573			1,390			2,149		
2025-26	2,523	-50	-1.9	1,380	-10	-0.7	2,049	-100	-4.7
2026-27	2,455	-68	-2.7	1,429	49	3.6	1,920	-129	-6.3
2027-28	2,460	5	0.2	1,388	-41	-2.9	1,893	-27	-1.4
2028-29	2,464	4	0.2	1,393	5	0.4	1,819	-74	-3.9
2029-30	2,478	14	0.6	1,351	-42	-3.0	1,833	14	0.8
Change 2024-25 to 2029-30		-95	-3.7		-39	-2.8		-316	-14.7

Figure 2.5 Enrollment Trends and Primary Projections by Grade Level 2020-21 to 2029-30**Table 2.8 Projected Enrollments by Grade**

School Year	K	1	2	3	4	5	6	7	8	9	10	11	12	Total
2024-25	301	434	460	438	478	462	485	434	471	535	505	556	553	6,112
2025-26	332	371	437	457	441	485	459	486	435	469	527	505	548	5,952
2026-27	331	409	374	434	460	447	482	460	487	433	462	527	498	5,804
2027-28	364	408	412	372	437	467	444	483	461	485	427	462	519	5,741
2028-29	377	448	411	410	375	443	464	445	484	459	478	427	455	5,676
2029-30	361	464	451	409	413	380	440	465	446	482	452	478	421	5,662
Pupil Chg	60	30	-9	-29	-65	-82	-45	31	-25	-53	-53	-78	-132	-450
% Chg	19.9	6.9	-2.0	-6.6	-13.6	-17.7	-9.3	7.1	-5.3	-9.9	-10.5	-14.0	-23.9	-7.4

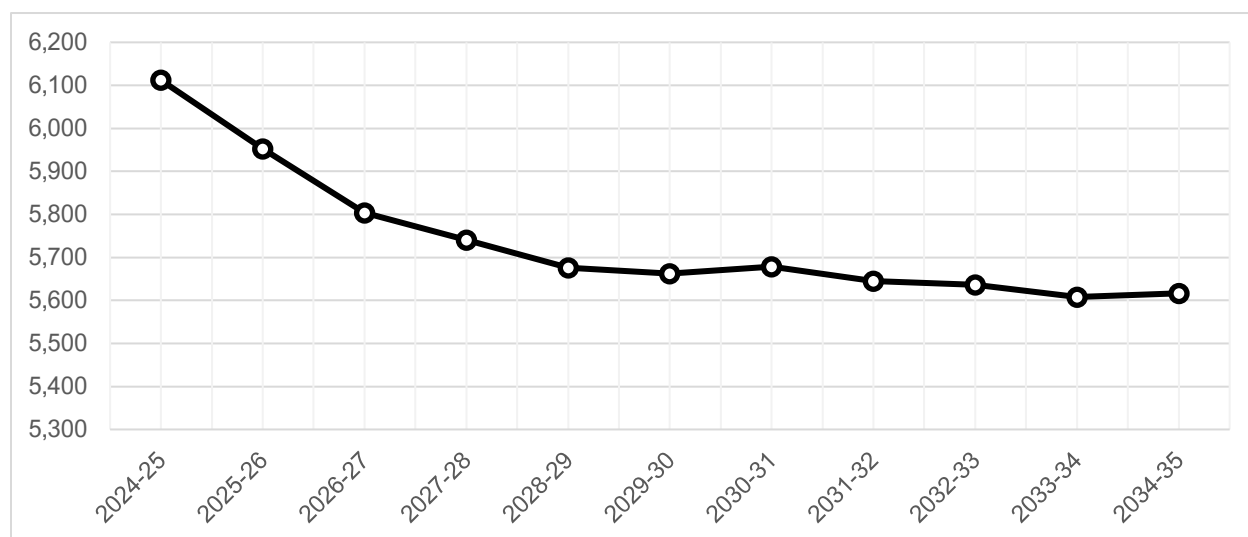
Enrollment Projections – Extended Period

Extended projections require estimating future births for kindergarten entries, which adds another level of projection uncertainty due to the volatility of yearly births (as further explored in Chapter 1). These projections fix estimated births at the four-year average of 479 births annually.

The extended projections anticipate enrollment to effectively flatline with small annual enrollment increases and decreases that net to a decrease of 22 over the five years. Enrollments are forecasted to total 5,616 pupils by 2034-35.

Table 2.9 Extended Total Enrollment Projections (Grades K-12) 2029-30 to 2034-35

School Year	Enrollment	Change	
		#	%
2029-30	5,662		
2030-31	5,678	16	0.3
2031-32	5,645	-33	-0.6
2032-33	5,636	-9	-0.2
2033-34	5,608	-28	-0.5
2034-35	5,616	8	0.1
Change 2026-27 to 2031-32		-46	-0.8

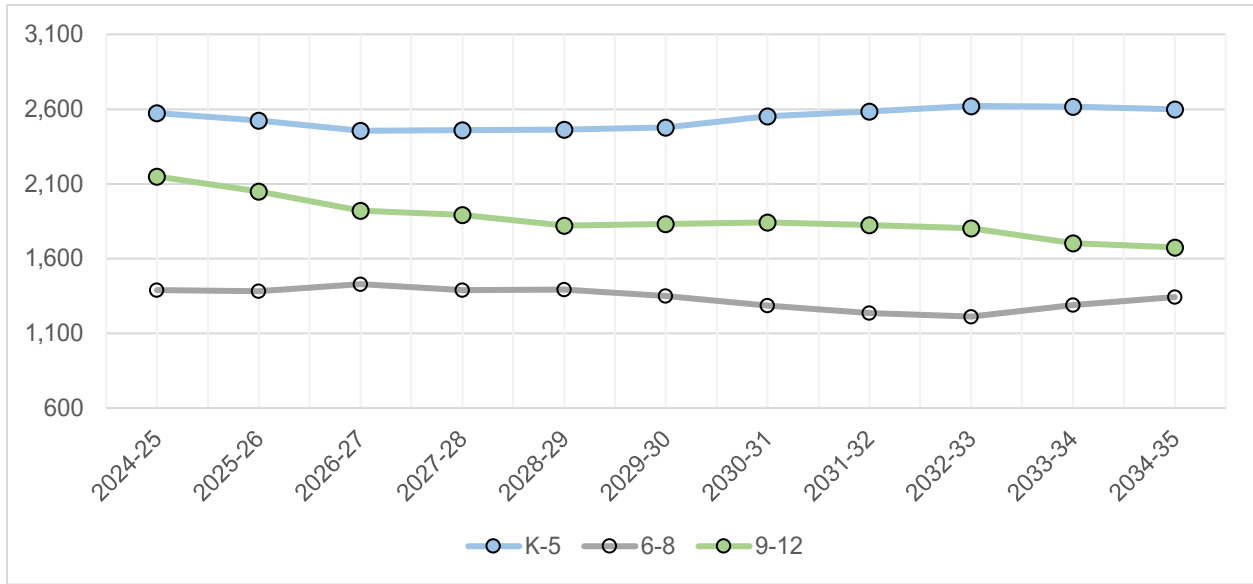
Figure 2.6 Total Primary/Extended Enrollment Projections 2024-25 to 2034-35

K-5 enrollments in the extended forecast continue to rise in 2030-31 through 2032-33 adding 153 students in those three years before losing students in 2033-34 and 2034-35 ending with period with 2,597 students. Extended middle school enrollments see declines from 2030-31 to 2032-33 before showing an increase in 2033-34 and the 2034-35 ending the projection period at 1,344 students. High school pupil counts are projected to decline from 1,833 students in 2029-30 to 1,675 students in 2034-35.

Table 2.10 Extended Enrollment Projections by Grade Level 2026-27 to 2034-35

School Year	K-5			6-8			9-12		
	Enrollment	#	Change %	Enrollment	#	Change %	Enrollment	#	Change %
2029-30	2,478			1,351			1,833		
2030-31	2,551	73	2.9	1,285	-66	-4.9	1,842	9	0.5
2031-32	2,585	34	1.3	1,237	-48	-3.7	1,823	-19	-1.0
2032-33	2,621	36	1.4	1,212	-25	-2.0	1,803	-20	-1.1
2033-34	2,617	-4	-0.2	1,289	77	6.4	1,702	-101	-5.6
2034-35	2,597	-20	-0.8	1,344	55	4.3	1,675	-27	-1.6
Change 2029-30 to 2034-35		119	4.8		-7	-0.5		-158	-8.6

Figure 2.7 Primary and Extended Enrollment Projections by Grade Level 2024-25 to 2034-35



Enrollment Projections Alternative Scenarios

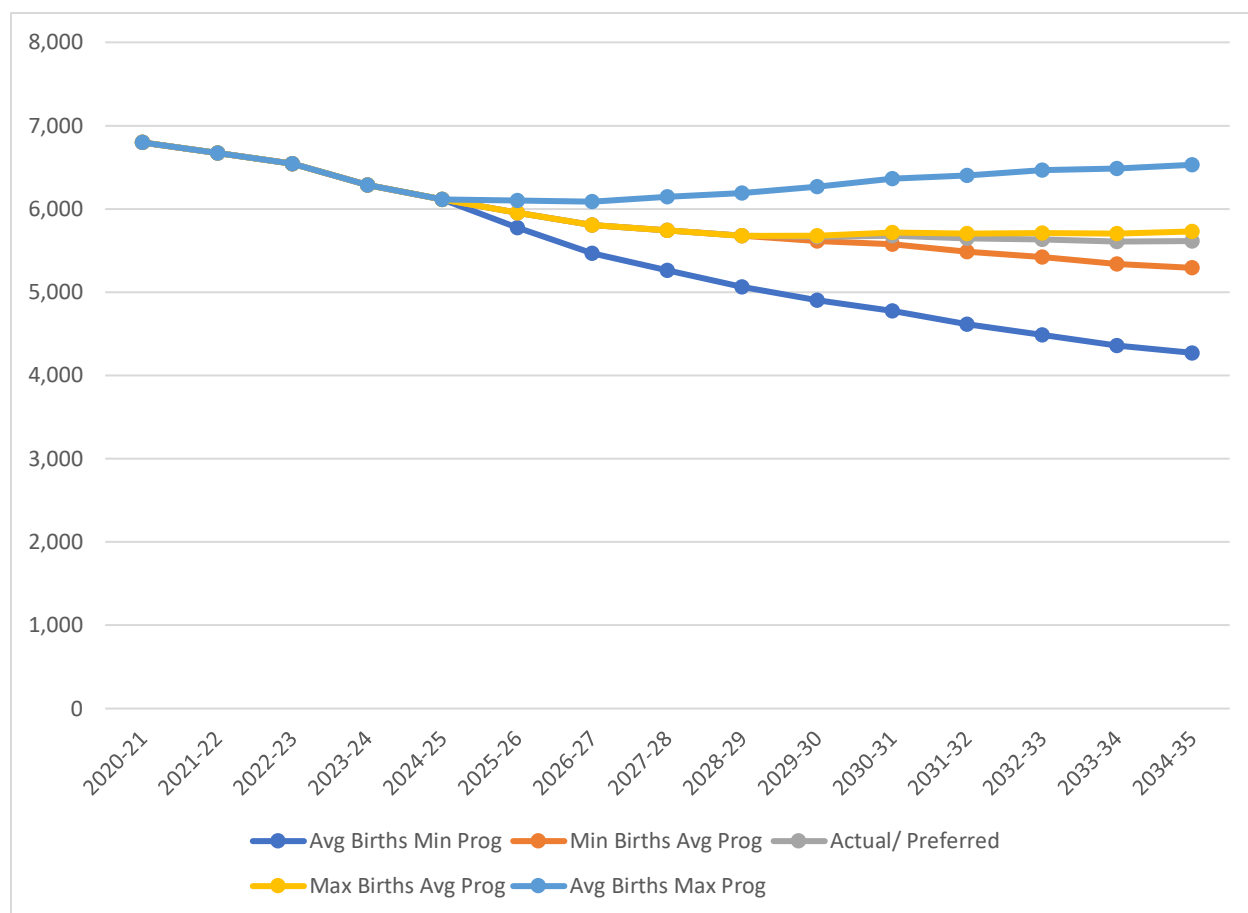
The above projections were developed using four year average progression ratios and the average birth rate for the last five years. In contrast, Tables 2.11 and 2.12 provide a greater range of enrollment possibilities using a combination of the minimum and maximum progressions for each grade, as well as the minimum (418), maximum (500) and average (456) annual number of births.

Table 2.11 Minimum/Maximum Progression Ratios, SY 2021-22 to 2024-25

Grades	Minimum	Preferred 4 year Avg	Maximum
B/K	0.7201	0.7547	0.8081
1/K	1.1263	1.2311	1.2713
2/1	0.9576	1.0071	1.0183
3/2	0.9540	0.9942	1.0090
4/3	0.9792	1.0071	1.0298
5/4	0.9853	1.0147	1.0408
6/5	0.9644	0.9936	1.0205
7/6	0.9957	1.0013	1.0055
8/7	0.9818	1.0016	1.0217
9/8	0.9811	0.9964	1.0121
10/9	0.9712	0.9856	1.0126
11/10	0.9790	0.9991	1.0228
12/11	0.9626	0.9856	1.0307

Table 2.12 Actual Enrollments and Alternative Enrollment Projections 2020-21 to 2034-35

School Year	Avg Births & Min Prog	Min Births & Avg Prog	Actual/ Preferred	Max Births & Avg Prog	Avg Births & Max Prog	Range Prog Chg	Range Birth Min Max
2020-21	6,797	6,797	6,797	6,797	6,797	0	0
2021-22	6,669	6,669	6,669	6,669	6,669	0	0
2022-23	6,540	6,540	6,540	6,540	6,540	0	0
2023-24	6,285	6,285	6,285	6,285	6,285	0	0
2024-25	6,112	6,112	6,112	6,112	6,112	0	0
2025-26	5,776	5,952	5,952	5,952	6,103	327	0
2026-27	5,469	5,804	5,804	5,804	6,087	618	0
2027-28	5,261	5,741	5,741	5,741	6,147	886	0
2028-29	5,060	5,676	5,676	5,676	6,190	1,129	0
2029-30	4,900	5,616	5,662	5,678	6,264	1,364	62
2030-31	4,776	5,576	5,678	5,714	6,363	1,587	138
2031-32	4,613	5,487	5,645	5,701	6,405	1,792	214
2032-33	4,488	5,423	5,636	5,712	6,463	1,976	289
2033-34	4,358	5,340	5,608	5,704	6,482	2,124	364
2034-35	4,272	5,292	5,616	5,732	6,533	2,261	440

Figure 2.9 Actual Enrollments and Alternative Enrollment Projections 2020-21 to 2034-35

Using the alternative projections scenario creates a wider range of possible enrollments for any given school year. This range varies from a low of 327 in 2025-26 (5,776 students to 6,103 students) to a high of 2,261 in 2034-35. Minimum enrollment by 2034-35 is estimated at 4,272. Maximum enrollment is estimated at 6,533 or slightly above the actual 2023-2024 enrollment. These compare with the preferred enrollment estimate of 5,616.

The estimates using only the minimum and maximum birth rates show a smaller range starting in 2028-29 at 62, growing to a 440 variance by 2034-35. Minimum enrollment by 2034-35 is estimated at 5,292. Maximum enrollment is estimated at 6,533.

By grade level, the K-5 range estimate is 760 in 2034-35, resulting in projections from 2,047 students to 2,807 students; grade 6-8, range is 686, projected students from 971 to 1,656; grades 9-12, range is 1,254, projected students from 1,254 to 2,096.

By grade level using the four year average progression ratios and the minimum and maximum births, the range of K-5 enrollments grows from 62 beginning in year 2029-30 to 440 in year 2034-35. There is no variance from the preferred in the 6-8 and 9-12 ratios, as birthrates associated with those grade levels have already occurred.

Table 2.11 K-5 Actual and Alternative Enrollment Projections 2020-21 to 2034-35

School Year	Avg Births Min Prog	Min Births Avg Prog	Actual/ Preferred	Max Births Avg Prog	Avg Births Max Prog	Range Prog Chg	Range Birth Min Max
2020-21	2,729	2,729	2,729	2,729	2,729	0	0
2021-22	2,667	2,667	2,667	2,667	2,667	0	0
2022-23	2,678	2,678	2,678	2,678	2,678	0	0
2023-24	2,674	2,674	2,674	2,674	2,674	0	0
2024-25	2,573	2,573	2,573	2,573	2,573	0	0
2025-26	2,410	2,523	2,523	2,523	2,593	183	0
2026-27	2,246	2,455	2,455	2,455	2,589	343	0
2027-28	2,165	2,460	2,460	2,460	2,650	484	0
2028-29	2,103	2,464	2,464	2,464	2,705	602	0
2029-30	2,051	2,432	2,478	2,494	2,748	698	62
2030-31	2,076	2,449	2,551	2,587	2,843	767	138
2031-32	2,086	2,427	2,585	2,641	2,861	776	214
2032-33	2,098	2,408	2,621	2,697	2,884	787	289
2033-34	2,078	2,349	2,617	2,713	2,857	778	364
2034-35	2,047	2,273	2,597	2,713	2,807	760	440

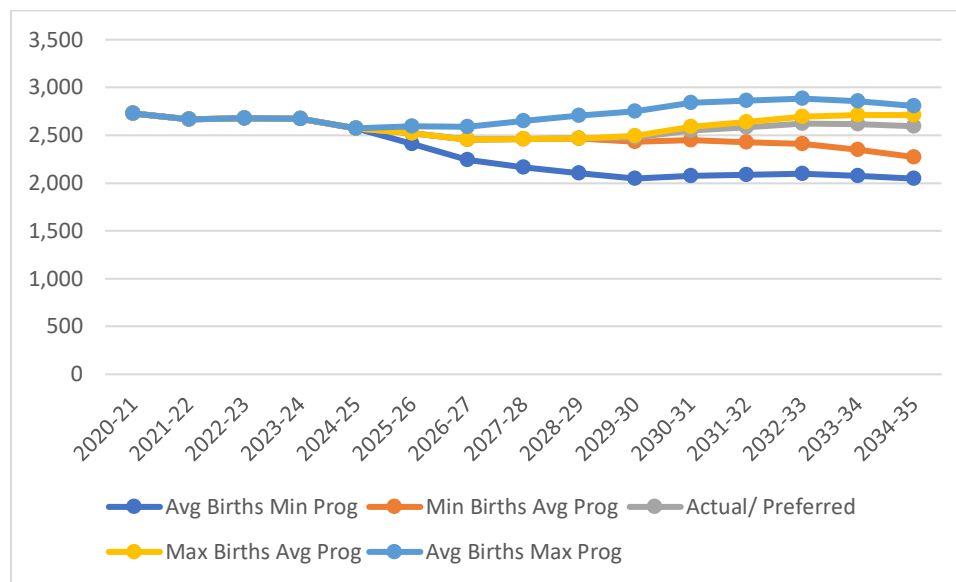
Figure 2.9 K-5 Actual Enrollments and Alternative Enrollment Projections 2020-21 to 2034-35

Table 2.11 6-8 Actual and Alternative Enrollment Projections 2020-21 to 2034-35

School Year	Avg Births Min Prog	Min Births Avg Prog	Actual/ Preferred	Max Births Avg Prog	Avg Births Max Prog	Range Prog Chg	Range Birth Chg
2020-21	1,672	1,672	1,672	1,672	1,672	0	0
2021-22	1,634	1,634	1,634	1,634	1,634	0	0
2022-23	1,543	1,543	1,543	1,543	1,543	0	0
2023-24	1,434	1,434	1,434	1,434	1,434	0	0
2024-25	1,390	1,390	1,390	1,390	1,390	0	0
2025-26	1,355	1,380	1,380	1,380	1,403	48	0
2026-27	1,372	1,429	1,429	1,429	1,480	108	0
2027-28	1,295	1,388	1,388	1,388	1,474	179	0
2028-29	1,258	1,393	1,393	1,393	1,511	253	0
2029-30	1,174	1,351	1,351	1,351	1,490	317	0
2030-31	1,055	1,285	1,285	1,285	1,442	387	0
2031-32	951	1,237	1,237	1,237	1,441	491	0
2032-33	886	1,212	1,212	1,212	1,458	573	0
2033-34	929	1,289	1,289	1,289	1,587	657	0
2034-35	971	1,344	1,344	1,344	1,656	686	0

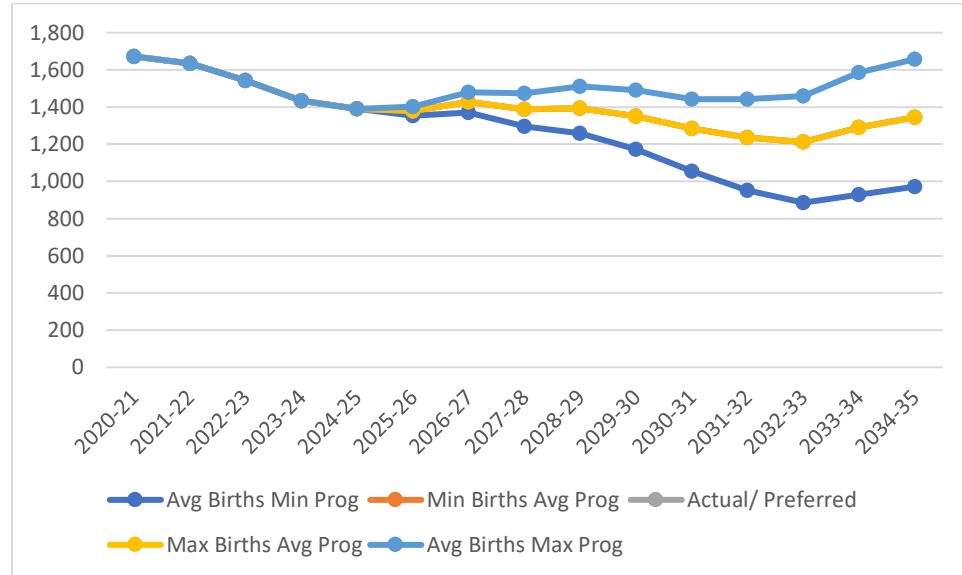
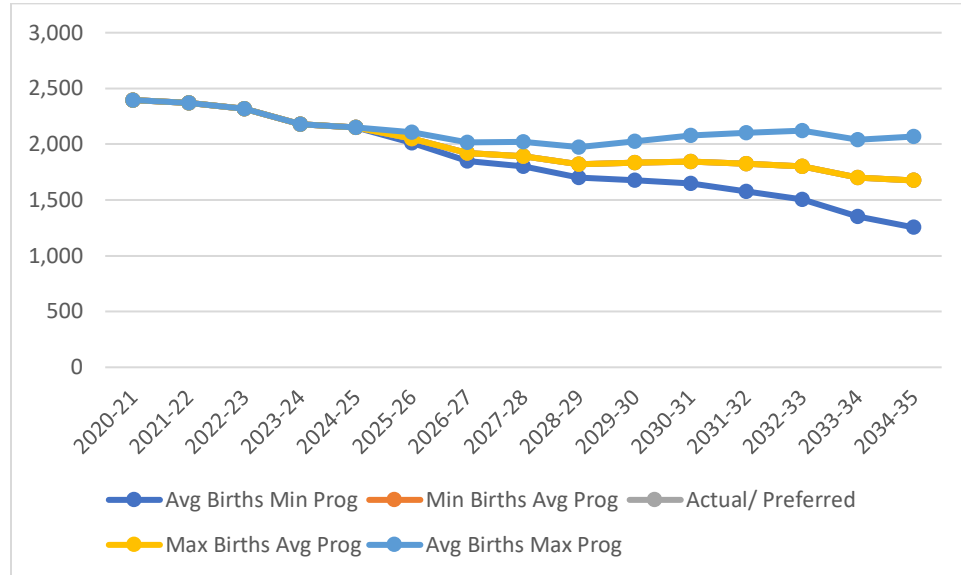
Figure 2.9 6-8 Actual Enrollments and Alternative Enrollment Projections 2020-21 to 2034-35

Table 2.11 9-12 Actual and Alternative Enrollment Projections 2020-21 to 2034-35

School Year	Avg Births Min Prog	Min Births Avg Prog	Actual/ Preferred	Max Births Avg Prog	Avg Births Max Prog	Range Prog Chg	Range Birth Chg
2020-21	2,396	2,396	2,396	2,396	2,396	0	0
2021-22	2,368	2,368	2,368	2,368	2,368	0	0
2022-23	2,319	2,319	2,319	2,319	2,319	0	0
2023-24	2,177	2,177	2,177	2,177	2,177	0	0
2024-25	2,149	2,149	2,149	2,149	2,149	0	0
2025-26	2,011	2,049	2,049	2,049	2,108	97	0
2026-27	1,851	1,920	1,920	1,920	2,018	166	0
2027-28	1,800	1,893	1,893	1,893	2,023	223	0
2028-29	1,700	1,819	1,819	1,819	1,974	275	0
2029-30	1,676	1,833	1,833	1,833	2,025	350	0
2030-31	1,646	1,842	1,842	1,842	2,078	433	0
2031-32	1,576	1,823	1,823	1,823	2,102	526	0
2032-33	1,504	1,803	1,803	1,803	2,121	616	0
2033-34	1,350	1,702	1,702	1,702	2,039	689	0
2034-35	1,254	1,675	1,675	1,675	2,069	815	0

Figure 2.9 Actual Enrollments and Alternative Enrollment Projections 2020-21 to 2034-35



Chapter 3

Projections By School and Municipality

Introduction

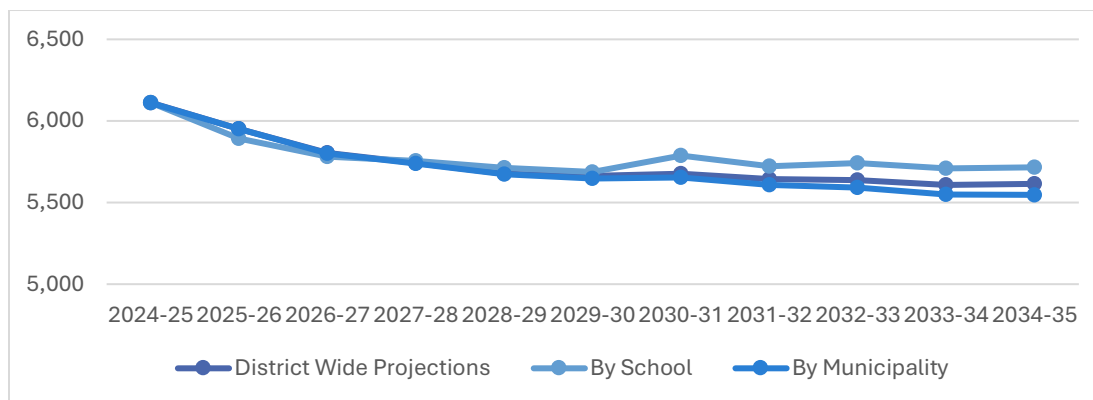
The tables and figures below present school district projections by area using two sets of numbers. One set used the grade progression ratio within the individual schools throughout the district. The second set of numbers is by municipality using the four year average district wide grade progression ratio applied in Chapter 2.

All of the projections show a decline in student population through 2029-2030. The districtwide and by municipality figures continue to decline throughout the extended period, while the by school scenario hits a low of 5,500 in 2029-30 before trending upward to 5,697 in 2034-35. This figure is still below the current year's enrolments.

Table 3.1 Projection Scenarios District Wide, By School, and by Municipality

Year	District Wide Projections	By School	Variance from District Wide	By Municipality	Variance from District Wide
2024-25	6,112	6,112	0.0%	6,110	0.0%
2025-26	5,952	5,894	-1.0%	5,951	0.0%
2026-27	5,804	5,782	-0.4%	5,802	0.0%
2027-28	5,741	5,754	0.2%	5,738	-0.1%
2028-29	5,676	5,714	0.7%	5,672	-0.1%
2029-30	5,662	5,688	0.4%	5,647	-0.3%
2030-31	5,678	5,788	1.9%	5,653	-0.4%
2031-32	5,645	5,723	1.4%	5,608	-0.7%
2032-33	5,636	5,743	1.9%	5,590	-0.8%
2033-34	5,608	5,709	1.8%	5,550	-1.0%
2034-35	5,616	5,716	1.8%	5,547	-1.2%

Figure 3.1 Projection Scenarios District Wide, By School, and by Municipality



Projection Scenarios by Grade

Table 3.2 K-Grade 5 Projection Scenarios

Year	District Wide Projections	By School	Variance from District Wide	By Municipality	Variance from District Wide
2024-25	2,573	2,573	0.0%	2,571	-0.1%
2025-26	2,523	2,470	-2.1%	2,522	0.0%
2026-27	2,455	2,463	0.3%	2,454	0.0%
2027-28	2,460	2,504	1.8%	2,458	-0.1%
2028-29	2,464	2,568	4.2%	2,461	-0.1%
2029-30	2,478	2,580	4.1%	2,465	-0.5%
2030-31	2,551	2,658	4.2%	2,530	-0.8%
2031-32	2,585	2,687	4.0%	2,554	-1.2%
2032-33	2,621	2,723	3.9%	2,581	-1.5%
2033-34	2,617	2,711	3.6%	2,566	-1.9%
2034-35	2,597	2,680	3.2%	2,534	-2.4%

Table 3.2 K-Grade 5 Projection Scenarios

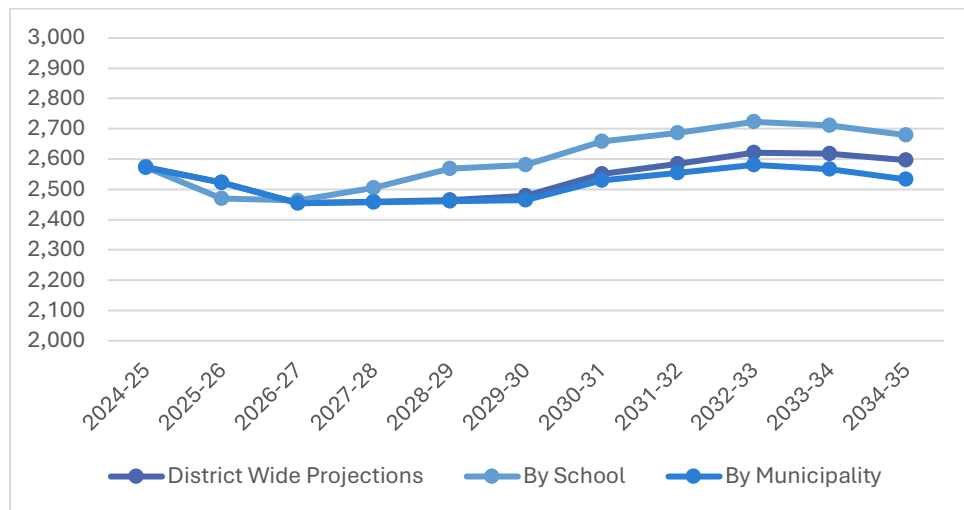


Table 3.3 Grade 6-8 Projection Scenarios

Year	District Wide Projections	By School	Variance from District Wide	By Municipality	Variance from District Wide
2024-25	1,390	1,390	0.0%	1,391	0.1%
2025-26	1,380	1,375	-0.4%	1,378	-0.1%
2026-27	1,429	1,400	-2.0%	1,427	-0.1%
2027-28	1,388	1,359	-2.1%	1,386	-0.2%
2028-29	1,393	1,334	-4.2%	1,393	0.0%
2029-30	1,351	1,308	-3.2%	1,352	0.1%
2030-31	1,285	1,321	2.8%	1,284	-0.1%
2031-32	1,237	1,280	3.5%	1,234	-0.2%
2032-33	1,212	1,288	6.3%	1,206	-0.5%
2033-34	1,289	1,266	-1.8%	1,286	-0.2%
2034-35	1,344	1,358	1.1%	1,343	-0.1%

Figure 3.3 Grade 6-8 Projection Scenarios

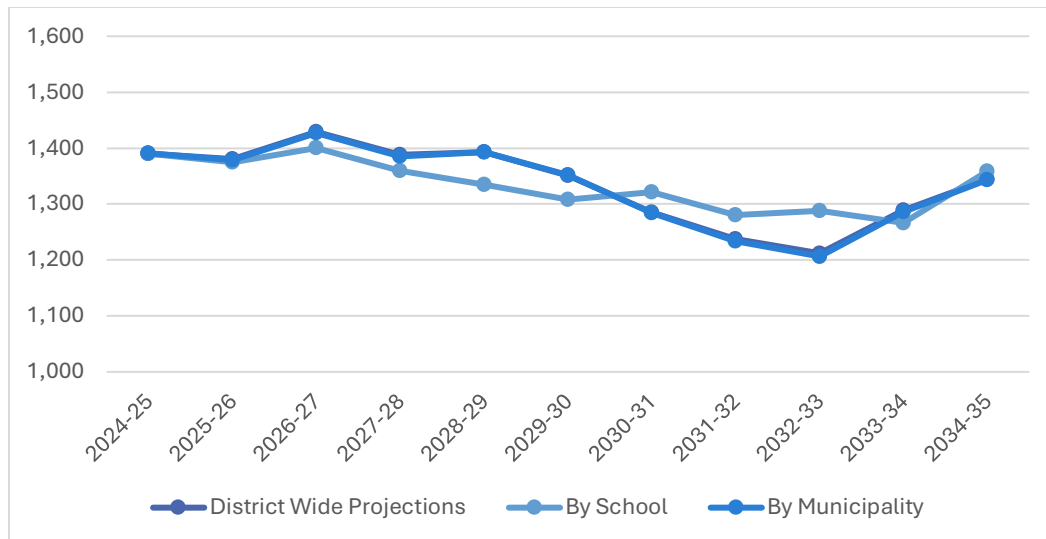
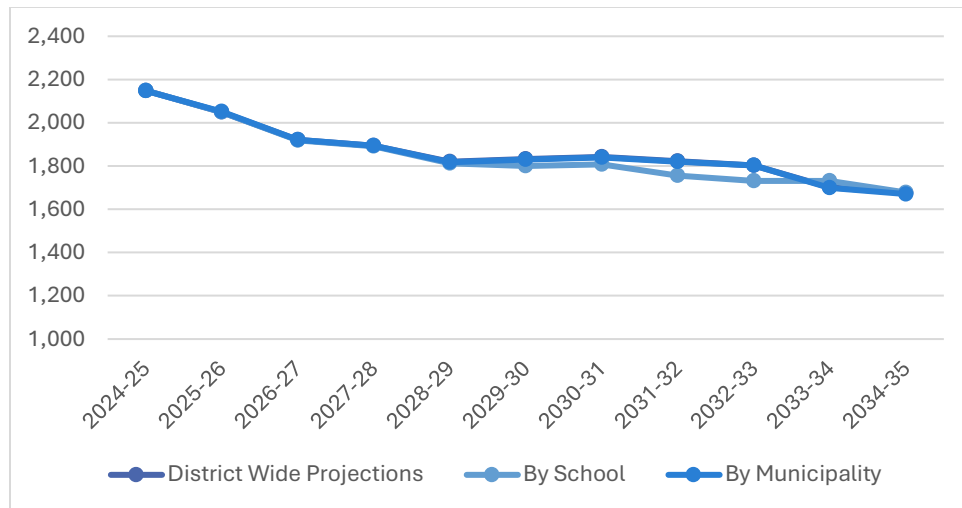


Table 3.4 Grade 9-12 Projection Scenarios

Year	District Wide Projections	By School	Variance from District Wide	By Municipality	Variance from District Wide
2024-25	2,149	2,149	0.0%	2,148	0.0%
2025-26	2,049	2,049	0.0%	2,051	0.1%
2026-27	1,920	1,918	-0.1%	1,921	0.0%
2027-28	1,893	1,890	-0.1%	1,894	0.0%
2028-29	1,819	1,812	-0.4%	1,818	0.0%
2029-30	1,833	1,799	-1.8%	1,830	-0.1%
2030-31	1,842	1,809	-1.8%	1,839	-0.2%
2031-32	1,823	1,756	-3.7%	1,820	-0.1%
2032-33	1,803	1,732	-3.9%	1,803	0.0%
2033-34	1,702	1,732	1.7%	1,698	-0.2%
2034-35	1,675	1,678	0.2%	1,671	-0.3%

Figure 3.4 Grade 9-12 Projection Scenarios



Projections by Grade and Building

Assumptions

- Oct. 1, 2024-25, enrollments as baseline
- Progression ratios based on the four year average ratio for the school.
- Kindergarten enrollment derived by applying the average four year average birth to K ratio to total Birth, then allocating this figure by four year average percentage of Kindergarten enrollments by school.
- Total of grade 5 enrollments allocated to following year middle schools based on percentage provided by the district.

Table 3.5 Total Projected Enrollment by School and by District, 2024-25 to 2034-35

Year	K-5	6-8	9-12	Total By School Enrollment	District Wide Projections	Variance	% Variance
2024-25	2,573	1,390	2,149	6,112	6,112	0	0.0%
2025-26	2,491	1,375	2,049	5,915	5,952	-37	-0.6%
2026-27	2,488	1,400	1,918	5,807	5,804	3	0.0%
2027-28	2,529	1,362	1,890	5,781	5,741	40	0.7%
2028-29	2,594	1,345	1,812	5,751	5,676	75	1.3%
2029-30	2,608	1,325	1,799	5,732	5,662	70	1.2%
2030-31	2,686	1,341	1,812	5,839	5,678	161	2.8%
2031-32	2,716	1,299	1,766	5,781	5,645	136	2.4%
2032-33	2,752	1,308	1,749	5,809	5,636	173	3.0%
2033-34	2,740	1,287	1,754	5,781	5,608	173	3.0%
2034-35	2,708	1,380	1,704	5,793	5,616	177	3.1%

Table 3.6 Projected Elementary Enrollments, 2024-25 to 2034-35

K-5	Bedminster	Delbler	Grasse	Guth	Sellersville	Seylar	West Rockhill	Total Enrollment	District Wide Projections	Variance	% Variance
24-25	403	329	399	405	295	387	355	2,573	2,573	0	0.0%
25-26	414	325	381	355	300	364	353	2,491	2,523	-32	-1.3%
26-27	430	317	379	354	292	373	344	2,488	2,455	33	1.3%
27-28	431	322	369	379	295	393	339	2,529	2,460	69	2.7%
28-29	437	318	378	385	308	416	353	2,594	2,464	130	5.0%
29-30	439	309	380	387	307	432	354	2,608	2,478	130	5.0%
30-31	440	317	386	410	315	451	367	2,686	2,551	135	5.0%
31-32	446	320	390	414	318	455	372	2,716	2,585	131	4.8%
32-33	451	325	397	417	322	461	378	2,752	2,621	131	4.8%
33-34	450	323	395	415	320	459	377	2,740	2,617	123	4.5%
34-35	444	319	392	411	316	453	373	2,708	2,597	111	4.1%

Table 3.7 Projected Middle School Enrollments, 2024-25 to 2034-35

Grade 6-8	North MS	Central MS	South MS	Total Enrollment	District Wide Projections	Variance	% Variance
2024-25	529	475	386	1,390	1,390	0	0.0%
2025-26	529	463	383	1,375	1,380	-5	-0.4%
2026-27	540	476	384	1,400	1,429	-29	-2.1%
2027-28	541	470	352	1,362	1,388	-26	-1.9%
2028-29	561	458	327	1,345	1,393	-48	-3.5%
2029-30	553	451	322	1,325	1,351	-26	-1.9%
2030-31	559	456	326	1,341	1,285	56	4.2%
2031-32	542	442	316	1,299	1,237	62	4.8%
2032-33	545	445	318	1,308	1,212	96	7.4%
2033-34	537	438	312	1,287	1,289	-2	-0.1%
2034-35	576	470	335	1,380	1,344	36	2.6%

Table 3.8 Projected High School Enrollments, 2024-25 to 2034-35

Grade 9-12	Total Enrollment	District Wide Projections	Variance	% Variance
2024-25	2,149	2,149	0	0.0%
2025-26	2,049	2,049	0	0.0%
2026-27	1,918	1,920	-2	-0.1%
2027-28	1,890	1,893	-3	-0.1%
2028-29	1,812	1,819	-7	-0.4%
2029-30	1,799	1,833	-34	-1.9%
2030-31	1,812	1,842	-30	-1.7%
2031-32	1,766	1,823	-57	-3.2%
2032-33	1,749	1,803	-54	-3.1%
2033-34	1,754	1,702	52	3.0%
2034-35	1,704	1,675	29	1.7%

Table 3.9 Bedminster Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	55	55	77	71	74	71	403
2025-26	52	74	76	77	76	58	414
2026-27	52	70	77	77	76	79	430
2027-28	57	70	73	77	76	78	431
2028-29	60	77	73	73	76	78	437
2029-30	55	81	80	73	72	79	439
2030-31	56	74	84	80	72	74	440
2031-32	56	75	77	84	79	74	446
2032-33	56	75	78	77	83	82	451
2033-34	56	75	78	78	76	86	450
2034-35	56	75	78	78	78	79	444

Table 3.10 Deibler Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	34	64	62	50	62	57	329
2025-26	38	47	63	63	51	63	325
2026-27	37	52	46	64	65	52	317
2027-28	41	51	52	47	66	66	322
2028-29	43	56	50	53	48	67	318
2029-30	40	59	56	51	54	49	309
2030-31	40	55	58	57	53	55	317
2031-32	40	55	54	60	58	53	320
2032-33	40	55	54	55	61	59	325
2033-34	40	55	54	55	57	62	323
2034-35	40	55	54	55	57	58	319

Table 3.11 Grasse Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	41	73	64	74	82	65	399
2025-26	42	59	66	63	81	69	381
2026-27	41	61	62	67	66	83	379
2027-28	46	59	64	63	70	67	369
2028-29	47	67	62	65	66	71	378
2029-30	44	68	70	63	68	67	380
2030-31	45	64	71	71	66	69	386
2031-32	45	65	67	72	74	67	390
2032-33	45	65	68	68	76	75	397
2033-34	45	65	68	69	71	77	395
2034-35	45	65	68	69	72	72	392

Table 3.12 Guth Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	39	74	84	64	73	71	405
2025-26	57	49	74	71	43	62	355
2026-27	57	71	47	71	67	41	354
2027-28	63	71	69	45	67	64	379
2028-29	65	79	69	66	43	64	385
2029-30	60	81	76	66	62	41	387
2030-31	61	75	78	73	62	60	410
2031-32	61	76	72	76	69	60	414
2032-33	61	76	74	70	71	66	417
2033-34	61	76	74	71	66	68	415
2034-35	61	76	74	71	67	63	411

Table 3-13 Sellersville Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	47	52	57	44	46	49	295
2025-26	53	45	52	43	49	58	300
2026-27	52	51	44	51	43	52	292
2027-28	58	50	50	43	50	45	295
2028-29	60	55	49	48	43	53	308
2029-30	55	57	54	48	48	45	307
2030-31	56	53	56	53	47	50	315
2031-32	56	54	51	55	53	49	318
2032-33	56	54	52	50	55	55	322
2033-34	56	54	52	51	50	57	320
2034-35	56	54	52	51	51	52	316

Table 3.14 Seylar Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	43	58	65	69	71	81	387
2025-26	53	59	64	60	60	66	364
2026-27	52	73	62	63	62	62	373
2027-28	58	71	76	60	64	63	393
2028-29	60	80	75	75	62	66	416
2029-30	55	82	83	73	76	63	432
2030-31	56	76	86	82	74	78	451
2031-32	56	77	79	84	83	76	455
2032-33	56	77	80	77	86	85	461
2033-34	56	77	80	79	79	88	459
2034-35	56	77	80	79	80	81	453

Table 3.15 West Rockhill Elementary School

Year	Total K	001	002	003	004	005	Total
2024-25	42	58	51	66	70	68	355
2025-26	48	49	59	52	71	74	353
2026-27	48	56	50	60	55	75	344
2027-28	53	56	57	50	64	59	339
2028-29	55	62	57	58	54	68	353
2029-30	51	64	63	58	62	57	354
2030-31	52	59	65	64	62	65	367
2031-32	52	60	60	66	68	65	372
2032-33	52	60	61	61	71	72	378
2033-34	52	60	61	62	65	75	377
2034-35	52	60	61	62	67	70	373

Table 3-16 North Middle School

Year	6	7	8	Total 6-8
2024-25	187	180	162	529
2025-26	163	187	179	529
2026-27	191	163	186	540
2027-28	187	192	162	541
2028-29	184	187	190	561
2029-30	183	184	186	553
2030-31	194	183	182	559
2031-32	166	194	182	542
2032-33	187	166	192	545
2033-34	185	187	165	537
2034-35	205	185	186	576

Table 3-17 Central Middle School

Year	6	7	8	Total 6-8
2024-25	160	143	172	475
2025-26	163	158	142	463
2026-27	158	162	157	476
2027-28	154	156	160	470
2028-29	151	152	154	458
2029-30	151	149	151	451
2030-31	159	149	148	456
2031-32	137	158	148	442
2032-33	154	135	156	445
2033-34	152	152	134	438
2034-35	169	151	151	470

Table 3-18 South Middle School

Year	6	7	8	Total 6-8
2024-25	138	111	137	386
2025-26	130	140	113	383
2026-27	110	132	143	384
2027-28	107	111	134	352
2028-29	105	108	113	327
2029-30	105	106	111	322
2030-31	111	106	109	326
2031-32	95	112	108	316
2032-33	107	96	115	318
2033-34	106	108	98	312
2034-35	117	107	111	335

Table 3-19 Pennridge High School

Year	9	10	11	12	Total 9-12
2024-25	535	505	556	553	2,149
2025-26	469	527	505	548	2,049
2026-27	432	463	527	497	1,918
2027-28	484	426	462	519	1,890
2028-29	454	477	425	456	1,812
2029-30	456	448	476	419	1,799
2030-31	445	450	447	469	1,812
2031-32	437	439	449	441	1,766
2032-33	436	431	438	443	1,749
2033-34	461	430	431	432	1,754
2034-35	396	455	430	424	1,704

Projections by Municipality

Assumptions

- Oct. 1, 2024-25, enrollments allocated to municipality based on 2020 population of 5-17 year olds in the municipality.
- Progression ratios are based on the four year average ratio for the district.

Table 3.20 Municipal Projections, 2024-25 to 2034-35

Municipality	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35
Bedminster Twp	956	921	891	870	846	831	820	802	788	770	759
Dublin Boro	325	316	306	302	301	301	302	299	298	296	297
East Rockhill Twp	773	742	707	689	664	645	632	612	596	577	562
Hilltown Twp	1,815	1,781	1,742	1,739	1,726	1,729	1,741	1,739	1,745	1,744	1,754
Perkasie Boro	1,043	1,024	1,008	989	982	982	987	982	982	978	980
Sellersville Boro	593	578	575	583	588	596	607	613	621	628	638
Silverdale Boro	203	192	178	164	155	145	137	126	117	107	97
West Rockhill Twp	402	398	396	402	409	418	427	434	443	451	460
Total Enrollment	6,110	5,951	5,802	5,738	5,672	5,647	5,653	5,608	5,590	5,550	5,547
District Wide Projections	6,112	5,952	5,804	5,741	5,676	5,662	5,678	5,645	5,636	5,608	5,616
Variance	-2	-1	-2	-3	-4	-15	-25	-37	-46	-58	-69
% Variance	0.0%	0.0%	0.0%	-0.1%	-0.1%	-0.3%	-0.4%	-0.7%	-0.8%	-1.0%	-1.2%

Table 3.21 Total Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25		300	434	461	437	478	461	485	434	472	535	505	557	551	6,110
2025-26	440	332	369	437	458	440	485	458	486	435	470	527	505	549	5,951
2026-27	438	331	409	372	435	462	447	482	459	486	433	464	527	497	5,802
2027-28	482	364	407	412	370	438	468	444	483	459	485	427	463	519	5,738
2028-29	500	377	448	410	409	372	444	465	444	483	458	478	427	456	5,672
2029-30	466	352	465	451	407	412	378	441	466	445	482	451	477	420	5,647
2030-31	466	352	433	468	448	410	418	375	442	467	443	475	451	470	5,653
2031-32	466	352	433	436	465	452	416	416	376	442	465	437	474	444	5,608
2032-33	466	352	433	436	434	468	458	414	416	377	441	458	437	467	5,590
2033-34	466	352	433	436	434	437	475	455	414	417	375	435	458	430	5,550
2034-35	466	352	433	436	434	437	443	472	456	415	415	370	434	451	5,547

Table 3.22 Bedminster Township Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	49	47	68	72	68	75	72	76	68	74	84	79	87	86	956
2025-26	55	42	58	68	72	68	76	72	76	68	74	83	79	86	921
2026-27	63	48	51	58	68	72	69	76	72	76	68	73	83	78	891
2027-28	62	47	59	51	58	69	73	69	76	72	76	67	73	82	870
2028-29	64	48	58	59	51	58	70	73	69	76	71	75	67	72	846
2029-30	61	46	59	58	59	52	59	69	73	69	76	70	75	66	831
2030-31	61	46	57	60	58	59	52	59	69	73	69	74	70	74	820
2031-32	61	46	57	57	60	58	60	52	59	69	73	68	74	69	802
2032-33	61	46	57	57	57	60	59	60	52	59	69	72	68	73	788
2033-34	61	46	57	57	57	57	61	59	60	52	59	68	72	67	770
2034-35	61	46	57	57	57	57	58	60	59	60	52	58	68	70	759

Table 3.23 Dublin Borough Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	26	16	23	25	23	25	25	26	23	25	28	27	30	29	325
2025-26	22	17	20	23	25	23	25	25	26	23	25	28	27	30	316
2026-27	21	16	20	20	23	25	24	25	25	26	23	25	28	27	306
2027-28	26	20	20	21	20	23	25	23	25	25	26	23	25	27	302
2028-29	30	23	24	20	20	20	24	25	23	25	25	26	23	24	301
2029-30	25	19	28	24	20	21	20	23	25	23	25	24	26	22	301
2030-31	25	19	23	28	24	20	21	20	23	25	23	25	24	25	302
2031-32	25	19	23	23	28	24	20	21	20	23	25	23	25	24	299
2032-33	25	19	23	23	23	28	25	20	21	20	23	25	23	24	298
2033-34	25	19	23	23	23	23	29	25	20	21	20	23	25	23	296
2034-35	25	19	23	23	23	23	24	28	25	20	21	20	23	24	297

Table 3.24 East Rockhill Township Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	48	38	55	58	55	61	58	61	55	60	68	64	70	70	773
2025-26	41	31	47	55	58	55	62	58	61	55	60	67	64	69	742
2026-27	38	29	38	47	55	58	56	61	58	61	55	59	67	63	707
2027-28	51	38	35	38	47	55	59	56	62	58	61	54	59	66	689
2028-29	44	33	47	36	38	47	56	59	56	62	58	60	54	58	664
2029-30	44	33	41	48	35	38	48	56	59	56	61	57	60	53	645
2030-31	44	33	41	41	47	36	39	48	56	59	56	61	57	59	632
2031-32	44	33	41	41	41	48	36	39	48	56	59	55	61	56	612
2032-33	44	33	41	41	41	41	48	36	39	48	56	58	55	60	596
2033-34	44	33	41	41	41	41	42	48	36	39	48	55	58	54	577
2034-35	44	33	41	41	41	41	42	42	48	36	39	47	55	57	562

Table 3.25 Hilltown Township Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	138	89	129	137	130	142	137	144	129	140	159	150	165	164	1,815
2025-26	148	112	110	130	136	131	144	136	144	129	140	157	150	163	1,781
2026-27	133	100	138	110	129	137	133	143	136	144	129	137	157	148	1,742
2027-28	164	124	124	138	110	130	139	132	143	137	144	127	137	154	1,739
2028-29	153	115	152	124	138	110	132	138	132	144	136	142	127	135	1,726
2029-30	150	113	142	153	124	139	112	131	138	132	143	134	142	125	1,729
2030-31	150	113	139	143	153	125	141	111	131	139	132	141	134	140	1,741
2031-32	150	113	139	140	142	154	126	140	112	132	138	130	141	132	1,739
2032-33	150	113	139	140	140	143	156	126	140	112	131	136	130	139	1,745
2033-34	150	113	139	140	140	141	145	155	126	140	111	129	136	128	1,744
2034-35	150	113	139	140	140	141	143	145	155	126	140	110	129	134	1,754

Table 3.26 Perkasi Borough Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	82	51	74	79	75	82	79	83	74	80	91	86	95	94	1,043
2025-26	86	65	63	75	79	76	83	78	83	74	80	90	86	94	1,024
2026-27	84	63	80	63	74	79	77	83	79	83	74	79	90	85	1,008
2027-28	70	53	78	80	63	75	80	76	83	79	83	73	78	88	989
2028-29	93	70	65	79	80	63	76	80	76	83	78	82	73	77	982
2029-30	83	63	86	65	78	81	64	75	80	76	83	77	82	72	982
2030-31	83	63	77	87	65	79	82	64	75	80	76	81	77	81	987
2031-32	83	63	77	78	87	66	80	81	64	75	80	75	81	76	982
2032-33	83	63	77	78	77	87	67	79	81	64	75	79	75	80	982
2033-34	83	63	77	78	77	78	88	66	79	81	64	74	78	74	978
2034-35	83	63	77	78	77	78	79	88	66	80	81	63	74	77	980

Table 3.27 Sellersville Borough Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	39	29	42	45	42	46	45	47	42	46	52	49	54	54	593
2025-26	44	33	36	42	45	42	47	45	47	42	46	51	49	53	578
2026-27	57	43	41	36	42	45	43	46	45	47	42	45	51	48	575
2027-28	62	47	53	41	36	42	46	43	46	45	47	41	45	50	583
2028-29	61	46	58	53	41	36	43	45	43	47	45	46	41	44	588
2029-30	56	42	57	58	53	41	37	43	45	43	46	44	46	41	596
2030-31	56	42	52	57	58	53	42	36	43	46	43	46	44	46	607
2031-32	56	42	52	52	57	58	54	42	36	43	45	42	46	43	613
2032-33	56	42	52	52	52	57	59	54	42	36	43	45	42	45	621
2033-34	56	42	52	52	52	52	58	59	54	42	36	42	45	41	628
2034-35	56	42	52	52	52	52	53	58	59	54	42	36	42	44	638

Table 3.28 Silverdale Borough Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	7	10	14	15	15	16	15	16	14	16	18	17	19	18	203
2025-26	7	5	12	14	15	15	16	15	16	14	16	18	17	19	192
2026-27	4	3	7	12	14	15	15	16	15	16	14	16	18	17	178
2027-28	4	3	4	7	12	14	15	15	16	15	16	14	16	17	164
2028-29	10	8	4	4	7	12	14	15	15	16	15	16	14	15	155
2029-30	6	5	9	4	4	7	13	14	15	15	16	15	16	14	145
2030-31	6	5	6	9	4	4	7	13	14	15	15	16	15	16	137
2031-32	6	5	6	6	9	4	4	7	13	14	15	15	16	14	126
2032-33	6	5	6	6	6	9	4	4	7	13	14	15	15	16	117
2033-34	6	5	6	6	6	6	10	4	4	7	13	14	15	15	107
2034-35	6	5	6	6	6	6	6	9	4	4	7	12	14	15	97

Table 3.29 West Rockhill Township Projected Enrollment

Year	Births	K	1	2	3	4	5	6	7	8	9	10	11	12	Total K-12
2024-25	29	20	29	30	29	31	30	32	29	31	35	33	37	36	402
2025-26	37	28	25	29	30	29	31	30	32	29	31	34	33	36	398
2026-27	38	29	34	25	29	30	30	31	30	32	29	30	34	32	396
2027-28	43	32	35	35	25	29	30	29	31	30	32	29	30	34	402
2028-29	45	34	40	36	34	25	30	30	29	31	30	32	28	30	409
2029-30	41	31	42	40	35	35	25	29	30	30	31	29	31	28	418
2030-31	41	31	38	42	40	36	35	25	30	30	29	31	29	31	427
2031-32	41	31	38	38	42	40	36	35	25	30	30	29	31	29	434
2032-33	41	31	38	38	38	42	41	36	35	25	29	30	29	30	443
2033-34	41	31	38	38	38	38	43	41	36	35	25	29	30	29	451
2034-35	41	31	38	38	38	38	39	43	41	36	35	25	29	29	460

Chapter 4 Perspective on Accuracy

Introduction

Accurate projections of public school enrollments for periods of five to 10 years or more are difficult, at best, because of so many unpredictable variables. Furthermore, such efforts are highly dependent on accurate and complete data from state, county, school, and municipal officials, as well as the candid views of developers, real estate professionals, and others. The resulting projections cannot rise above inaccurate and incomplete data.

The difficulty of generating accurate projections increases as the focus moves from a large base (such as a state) down to counties, to local school districts, and to individual buildings within districts. Generally, the larger the area involved, the greater the accuracy in terms of the amount of percentage deviation from the projection because differences in smaller areas within the larger area tend to balance each other out.

The best way to assess the potential accuracy of PEL's projections of public school enrollments is by comparing the projections in other districts that relied on similar methodologies with the actual enrollments that resulted. The mechanism for doing this is known as the Mean Absolute Percentage Error (or MAPE—which is also known as the Mean Absolute Percentage Deviation).

$$MAPE = \frac{1}{n} \sum_{t=1}^n \left| \frac{A_t - F_t}{A_t} \right|$$

The MAPE and its companion, the Mean Absolute Deviation (which measures absolute values rather than percentage deviation), are the most widely used statistical measurement of average error in quantitative forecast models and indicator of expected accuracy. Use of the percentage deviation is preferable to the absolute deviation given that figures reflect school districts with enrollments ranging from about 1,000 to over 20,000, so there would be an issue of scale when dealing with absolute values; this is not the case with percentages.

The calculation of the MAPE involves taking the difference between the actual enrollment figure for a given year in a given district and the figure PEL projected for that district in that year, dividing it by the actual figure, and then converting it to a percentage. The resulting figures for each year in all districts are then summed—without regard to signs—and divided by the number of data points.

The reason the signs are disregarded is that in data sets such as these where the differences or deviations may be higher or lower than the actual figures the failure to do so would result in the negative differences canceling out those that are positive. This would result in a misleadingly low error calculation. Eliminating the signs avoids this potential problem.

Accuracy of PEL Enrollment Studies Catalog

Since 1986, on more than 220 occasions PEL has examined demographics, housing and related activity, and enrollment trends in Pennsylvania school districts and, using the techniques employed

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in this analysis, generated projections of enrollments covering a 10-year period. We regularly evaluate the accuracy of these projections by determining the MAPEs.

Projections generated more than 10 years ago have all 10 years on which to judge accuracy; some projections allow only eight or nine years' experience to be viewed; some six, five, and so forth; for others there has been only one year of actual figures on which to make judgments regarding PEL's accuracy.

Based on actual enrollments through the 2022-23 school year (and based on 1030 data points) the average MAPE for the first five years of projections is just over $\pm 3.2\%$ (essentially, about $\pm 1\%$ the first year, $\pm 2.0\%$ the second year, etc., and by the fifth year, the figure is about $\pm 5\%$). For years six through 10, our calculations are based on 944 data points and the difference between the projected and actual figures averages ± 8.1 percent.

The overall average MAPE reflecting 1,974 data points in all 10 projected years is ± 5.5 percent. The literature indicates that accuracy of $\pm 5.0\%$ *after five years* is acceptable.

Accuracy of Past Pennridge School District Enrollment Studies

A more focused point of reference on the accuracy of PEL's enrollment projections involves those developed for the Pennridge School District during the 2015-16 school year; these figures allow for nine years of actual enrollment in the district to be compared with PEL's figures. PEL's projections suggested a steady annual decrease in enrollments. During the subsequent nine years, the pupil count decreased more rapidly than projected.

The annual differences between PEL's projections and the actual figures for the first five years were 0.1 percent, 0.4 percent, 0.4 percent, 1.4 percent and 1.6 respectively for an average "error" of 0.5 percent, which is within the five-year zone of acceptability. Years six through nine show MAPE of 1.6 percent, 1.9 percent, 4.1 percent and 6.2 percent (2024-25).

PEL also completed enrollment projection studies for the Pennridge School District during the 2006-07; 2009-10 and 2011-2012 school years. These projects allow for all 10 years of projections to be compared with actual figures.

	2006-07	2009-10	2012-13	2016-17
1st 5 yrs	0.5	0.9	4.1	0.5
2 nd 5 yrs	1.7	0.9	14.6	n/a
All years	1.1	0.9	8.8	1.9

Projections represent calculations based on hard data and analysis of relevant events in the Pennridge School District in recent years. Because the projections were made based on averages of data which varied from year to year, future enrollments can be expected to vary from year to year from these projections. Although actual enrollments in future years may fluctuate around the projections, over a period of years the projections generated in this manner will normally present a valid picture of the enrollment trend in a given district.

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Uncertain events that can influence and alter pupil projections are such that no projections, no matter how carefully constructed, can guarantee complete accuracy. Unexpected changes in birth patterns; nonpublic school enrollments; migration patterns; internal policies (such as, retention and acceleration of pupils, age requirements for admission to school, half-day/full-day kindergarten programs, and who provides special education programs and to whom they are provided); statewide policies on “school choice,” vouchers, and other aspects of the educational program; the formation and/or termination of charter schools; economic climate; zoning and land use controls; infrastructure considerations; and interest rates, the housing market, and the state of the mortgage industry as they influence residential development activity and the turnover of mature housing, can all affect these projections.

Also, policy changes by external parties, such as major employers, can have a significant and lasting impact on enrollment patterns as can a teachers’ strike or even the serious threat of a strike. As such, various influencing factors must be monitored and analyzed every year by district officials. In this way, significant changes in current and projected patterns can be quickly identified and the appropriate adjustments can be made.

Despite these words of caution, PEL believes the projections offered in this report are as reasonable and as realistic as possible considering the available facts, and—based on our experience, the indicators we relied on, the techniques we used, and our track record—they should serve the district well in its short- and long-term planning.

PEL encourages district administrators to continue to monitor all factors that may affect the projections. District officials are best equipped to see changes that can impact the projections, such as larger family sizes and housing changes including turnover or increased units which can have an immediate impact on enrollment.

Table 4.1 Accuracy of Past Pennridge School District Enrollment Studies

		PEL Study Projections				Variance				MAPE			
School Year	Oct. 1 Enroll	2006-07	2009-10	2012-13	2016-17	2006-07	2009-10	2012-13	2016-17	2006-07	2009-10	2012-13	2016-17
2006-07	7,252	7,231	0	0	0	21				0.3			
2007-08	7,292	7,220	0	0	0	72				1.0			
2008-09	7,260	7,251	0	0	0	9				0.1			
2009-10	7,249	7,306	7,306	0	0	-57	-57			0.8	0.8		
2010-11	7,325	7,310	7,278	0	0	15	47			0.2	0.6		
2011-12	7,374	7,379	7,273	0	0	-5	101			0.1	1.4		
2012-13	7,339	7,450	7,283	7,484	0	-111	56	-145		1.5	0.8	2.0	
2013-14	7,333	7,479	7,250	7,532	0	-146	83	-199		2.0	1.1	2.7	
2014-15	7,357	7,500	7,241	7,612	0	-143	116	-255		1.9	1.6	3.5	
2015-16	7,297	7,523	7,232	7,677	0	-226	65	-380		3.1	0.9	5.2	
2016-17	7,251	0	7,251	7,768	7,256		0	-517	-5		0.0	7.1	0.1
2017-18	7,158	0	7,195	7,781	7,132		-37	-623	26		0.5	8.7	0.4
2018-19	7,058	0	7,149	7,806	7,033		-91	-748	25		1.3	10.6	0.4
2019-20	6,970	0	0	7,831	6,934			-861	36			12.4	0.5
2020-21	6,797	0	0	7,938	6,894			-1,141	-97			16.8	1.4
2021-22	6,669	0	0	7,920	6,779			-1,251	-110			18.8	1.6
2022-23	6,540	0	0	0	6,665				-125				1.9
2023-24	6,285	0	0	0	6,545				-260				4.1
2024-25	6,112	0	0	0	6,493				-381				6.2
1st 5 yrs										0.5	0.9	4.1	0.5
2 nd 5 yrs										1.7	0.9	14.6	n/a
All years										1.1	0.9	8.8	1.5

Figure 3.1 Trends in Past Pennridge School District Enrollment Studies vs Actual Enrollment

