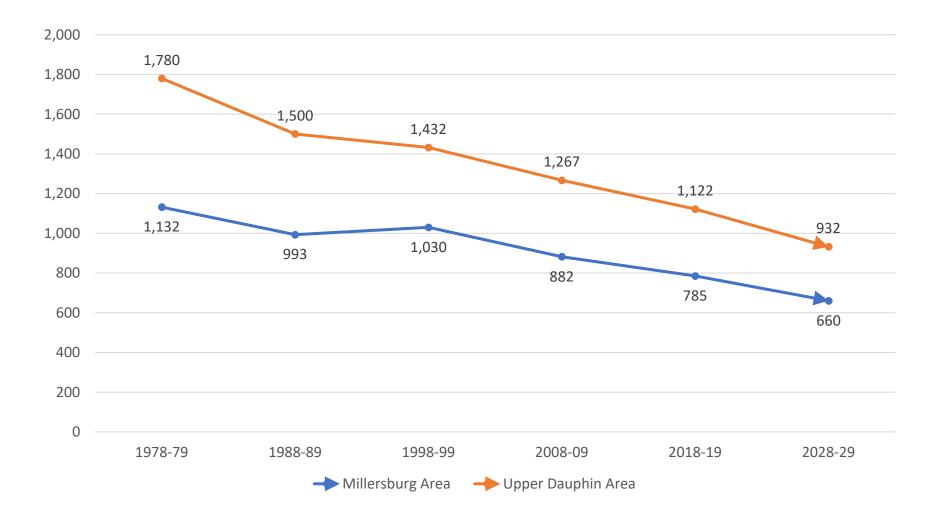
### Merged District Curriculum Presentation

THOMAS HAUPT, MILLERSBURG AREA SCHOOL DISTRICT SUPERINTENDENT JARED SHADE, UPPER DAUPHIN AREA SCHOOL DISTRICT SUPERINTENDENT

> Joint Board Study Session February 10, 2021

**Consolidation Feasibility Study** 

#### Remember: Why Now? Declining Enrollments



# K-5 Class Sizes, Course Offerings, and Teacher Complement in a Merged District

Grade	MBG Enrollment	UDA Enrollment	Merged Enrollment	Classroom Teachers	Average Class Size
Kindergarten	66	69	135	7	19
Grade 1	40	80	120	6	20
Grade 2	55	84	139	6	23
Grade 3	57	68	125	6	21
Grade 4	51	85	136	6	23
Grade 5	47	74	121	5	24
Totals:	316	460	776	36	21.67

# K-5 Class Sizes, Course Offerings, and Teacher Complement in a Merged District

Special Subject	Teachers/Counselors				
Art	1				
Guidance	2				
Library Science	1				
Music	1				
Physical Education	1				
World Language or STEM	1				

Special Education Service	Teachers/Therapists				
Learning Support	5				
Speech and Language Support	2				
Emotional Support	1				
Autistic Support	1				
Multiple Disabilities Support	1				

17

TOTAL

## **K-5 Regular Education Class Size Comparisons**

District Name	County	2020-21 Enrollment	Grade K Average Class Size	Grade 1 Average Class Size	Grade 2 Average Class Size	Grade 3 Average Class Size	Grade 4 Average Class Size	Grade 5 Average Class Size
Hanover	York	1990	24	24	23	24	25	27
Halifax	Dauphin	932	20	24	22	23	25	26
Lewisburg	Union	1951	18	18	18	18	22	22
Littlestown	Adams	1901	18	23	23	20	24	22
Mifflinburg	Union	1947	17	17	16	18	21	19
Susquenita	Perry	1828	20	22	22	25	25	25
Average			19.5	21.3	20.7	21.3	23.7	23.5
Merged	Dauphin	1869	19	20	23	21	23	24

# K-5 Special Education Teacher Complement Comparisons

District Name	County	2020-21 Enrollment	Number of K-5 Learning Support Teachers	Number of K-5 Speech Therapists	Number of K-5 Emotional Support Teachers	Number of K-5 Autistic Support Teachers	Number of K-5 Multiple Disabilities Support Teachers
Merged	Dauphin	1869	5	2	1	1	1
Hanover	York	1990	2	1	0	2	(contracted)
Halifax	Dauphin	932	2	1	1	1	(contracted)
Lewisburg	Union	1951	5	2	2	1	(contracted)
Littlestown	Adams	1901	4	1	1	0	1
Mifflinburg	Union	1947	4	2.5	2	2	1
Susquenita	Perry	1828	4	2	1	1	1

## **K-5 Professional Staffing**

Position	Number Required in a Merged District	Current Number in Individual Districts (Combined)	Difference (+/-)
Pre-Kindergarten Teachers*	1	1	No Change
K-5 Classroom Teachers	36	42	(-6)
Special Education Teachers	8	7.5	(+.5)
Speech Therapists	2	2 1	
Reading Specialists (Title 1)*	2	2 2	
Art Teachers	1	2	(-1)
Music Teachers	1	1 2	
Physical Education Teachers	1	2	(-1)
Library Science Teachers	1	2	(-1)
World Language or STEM Teachers	1	0	(+1)
School Counselors	2	2	No Change
School Nurses*	1	1	No Change
TOTALS	57	64.5	(-7.5)

# Merged English Language Arts Course Offerings (6-12)

#### Merged English Language Arts Course Offerings

Merged	Hanover	Halifax	Lewisburg	Littlestown	Mifflinburg	Susquenita
English Language Arts Grades K-8	English Language Arts Grades K-8	English Language Arts Grades K-8	Reading/Writing Grades 1-5	English Language Arts Grades K-8	English Language Arts Grades K-8	English Language Arts Grades K-8
Applied English 1-4	Language Arts 9-11	English 9-12	ELA Grades 6-8	Academic English 9-12	English Language Arts 9-12	General English 1-4
Academic English 1-4	Honors English 1-2	Academic English 9-12	English 9-12	English 10-12	Honors English Language Arts 9- 10	Academic English 1-4
Honors English 1-2	AP Language and Composition	Honors English 9-10	Honors English 9-11	English 11 World Literature	AP Language and Composition	AP Language and Composition
AP Language and Composition *	AP Literature and Composition	AP Language and Composition	AP Literature and Composition	English 12 British Literature	AP Literature and Composition	AP Literature and Composition
AP Literature and Composition	Creative Writing	Publications	Later 20th Century American Literature	Creative Writing	ELL Communications	Creative Writing
Penn College Honors English	Reader's/Writer's Workshop	Speech	Myths and Legends	Public Speaking 1-2	American Literature	Literature and Film
Journalism / Yearbook	Language Arts - British Literature	Popular Literature	Writing 1	Drama 1-2	British Literature	Media I
Mythology	Language Arts - Essentials	Vocabulary Studies	Creative Writing	AP Literature and Composition	Career Communications	Today's World
Creative Writing	PBA - Keystone	Reading Enhancement Skills	Practical Writing	College English in the High School	Research Writing and Public Speaking	
Keystone Literature		American Society In Film	Speech			
"Not currently offered in either district	-		Theatre Arts			
			Introduction to Film			
			Film Study and Practice			

Click The Image To Open The Merged English Language Arts Couse Offerings PDF Document

## Merged English Language Arts Course Sequences (6-12)

Sequence	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade
Honors Sequence	Grade K Language Arts	Grade 1 Language Arts	Grade 2 Language Arts	Grade 3 Language Arts	Grade 4 Language Arts	Grade 5 Language Arts	Grade 6 Language Arts	Grade 7 Language Arts	Grade 8 Language Arts	Honors English 1	Honors English 2	Advanced Placement Language and Composition	Advanc Placem Literatu and Composi
Academic Sequence	Grade K Language Arts	Grade 1 Language Arts	Grade 2 Language Arts	Grade 3 Language Arts	Grade 4 Language Arts	Grade 5 Language Arts	Grade 6 Language Arts	Grade 7 Language Arts	Grade 8 Language Arts	Academic English 1	Academic English 2	Academic English 3	Acaden Englist
Paced Sequence	Grade K Language Arts	Grade 1 Language Arts	Grade 2 Language Arts	Grade 3 Language Arts	Grade 4 Language Arts	Grade 5 Language Arts	Grade 6 Language Arts	Grade 7 Language Arts	Grade 8 Language Arts	Applied English 1	Applied English 2	Applied English 3	Applie Englist
										Journalism / Yearbook Creative Writing	Journalism / Yearbook Creative Writing	Journalism / Yearbook Creative Writing	Journalis Yearbo Creati Writin
Electives											Mythology	Mythology	Mythole
												Keystone Literature	PCT Ho Englis Keysto

Keystone Literature may only be taken as a remediation course for students re-taking the Keyston Exam.

All electives are semester courses with the exception of Yearbook

Click The Image To Open The Merged English (6-12) Language Arts Course Sequences PDF

#### **Merged Mathematics Course Offerings (6-12)**

#### Merged Mathematics Course Offerings

Merged	Hanover	Halifax	Lewisburg	Littlestown	Mifflinburg	Susquenita
General Math Grades K-8	Mathematics Grades K-8	Mathematics Grades K-8	Mathematics Grades K-7	Mathematics Grades K-8	Mathematics Grades K-8	Mathematics Grades K-6
Advanced Math 6- 7	Algebra 1	Academic Algebra 1	Foundations of Algebra	Algebra 1 Connections	Pre-Algebra	Pre-Algebra
Pre-Algebra	Algebra 1A	Algebra 1A	intermediate Aigebra	Keystone Algebra	Algebra 1	Algebra 1
Algebra 1	Algebra 1B	Algebra 1B	Algebra 1	Algebra 2 Connections	Algebra 2	Algebra 1A
Algebra 1A	Fundamentals of Algebra	Algebra 2	Algebra 2	Algebra 2 Standards Based	Honors Algebra 2	Algebra 1B
Algebra 1B	Algebra 2	Honors Algebra 2	Geometry	Geometry Connections	Geometry	Algebra 2
Keystone Algebra	Honors Algebra 2	Geometry	Advanced Algebra with Trigonometry	Analysis Connections	Honors Geometry- Trigonometry	Intermediate Algebra
Algebra 2	Geometry	Honors Geometry	Pre-Calculus	Statistics	Trigonometry with Selected Topics	AC Geometry
Honors Algebra 2	Honors Geometry	Trigonometry	Statistics	AP Statistics	Advanced Math	Basic Geometry
HU College Algebra	Pre-Calculus	Statistics	Math Analysis	College Algebra In the High School	Pre-Calculus	Pre-Calculus
Geometry	Honors Pre-Calculus	AP Calculus			AP Calculus	Pre-Calculus/Trig.
Applied Geometry	AP Calculus AB				AP Statistics	Calculus 1
Honors Geometry	AP calculus BC				Probability and Statistics	Calculus 2
Trigonometry	Statistics				Keystone Algebra 1	AP Calculus
Honors Pre-Calculus	AP Statistics					AP Statistics
Honors Calculus 1	Real World Math					Consumer Math
AP Calculus AB		-				
Statistics						

#### Statistics Consumer Matr Personal Financ

\* As per PDE regulations, personal Finance can be taken for a mathematics credit but can be taught by a teacher with Secondary Mathematics, Secondary Social Studies, or Business Education certification.

Click The Image To Open The Merged Mathematics Course Offerings PDF

## **Merged Mathematics Course Sequences (6-12)**

					Me	rged Ma	thematic	s Seque	ences				
Sequence	Grade K	<u>Grade 1</u>	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Advanced Placement	Grade K Math	Grade 1 Math	Grade 2 Math	Grade 3 Math	Grade 4 Math	Grade 5 Math	Advanced Math 6	Advanced Math 7	Algebra I	Honors Algebra 2	Honors Pre-Calculus	Honors Calculus 1	AP Calculus A or Math Electiv
										Honors Geometry			
Honors Sequence	Grade K Math	Grade 1 Math	Grade 2 Math	Grade 3 Math	Grade 4 Math	Grade 5 Math	Advanced Math 6	Advanced Math 7	Algebra I	Honors Algebra 2	Honors Geometry	Honors Pre-Calculus	Honors Calculus 1 or Math Elective
Academic Sequence	Grade K Math	Grade 1 Math	Grade 2 Math	Grade 3 Math	Grade 4 Math	Grade 5 Math	General Math 6	General Math 7	Pre- Algebra	Algebra I	Algebra 2	Geometry	Math Elective
Paced Sequence	Grade K Math	Grade 1 Math	Grade 2 Math	Grade 3 Math	Grade 4 Math	Grade 5 Math	General Math 6	General Math 7	Pre- Algebra	Algebra I (Part A)	Algebra I (Part B)	Applied Geometry	Consumer Math
												Statistics	Statistics
												Trigonometry	Trigonometry
												HU College	HU College
												Algebra	Algebra
												Honors	Honors
Electives												Pre-Calculus	Pre-Calculus
												Keystone	Honors Calculus 1
												Algebra	
													Consumer Ma
													Keystone
													Algebra
													Personal
													Finance
	, oppolled i	n the Adva	nced Plac	ement seq	uence mus	st take bot	h Honors A	lgebra 2 ar	nd Honors	Geometry in	grade 9.		
Students	s enrolled i						all a destada	1 P					
	s may only	enroll in P	aced sequ	ence cour	ses in grad	des 9-12 w	nth adminis	trative per	nission.				
<ul> <li>Students</li> </ul>	s may only				-		ourses are						

Click The Image To Open the Merged Mathematics Course Sequences PDF

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### **Merged Science Course Offerings (6-12)**

#### Merged Science Course Offerings

				-		
Merged	Hanover	Halifax	Lewisburg	Littlestown	Mifflinburg	Susquenita
Science Grades K-8	Science Grades K-8	Science Grades K-8	Science Grades K-7	STEM Grades K-5	Science Grades K-8	Science Grades K-8
Environmental Science	Biology	General Science 9	Physical Science	General Science Grades 6-8	Earth Science	Earth and Space Science
Honors Environmental Science	AP Blology	Academic Science 9	Earth and Environmental Scl.	Academic Biology	Biology	Environmental Science
Animal, Plant, and Soll Science	Earth and Space Science	Honors Science 9	Ecology and Environmental Scl.	Keystone Biology	Honors Biology	Keystone Blology
Biology	Physical Science	Biology	Environmental Studies	AP Biology	Biology A	Chemistry
Honors Biology	Academic Chemistry	Academic Biology	AP Environmental Science	Academic Chemistry	Biology B	AP Chemistry
Applied Biology	Honors Chemistry	Honors Biology	Biology	Chemistry	AP Biology	Human Anatomy and Physiology
Keystone Biology	AP Chemistry	Honors Advanced Biology	Honors Biology	AP Chemistry	Chemistry	Physics
AP Blology	Academic Physics	Chemistry	AP Blology	Conceptual Physics	AP Chemistry	General Science
Chemistry	Honors Physics	Academic Chemistry	Chemistry	Academic Physics	Physics	
Honors Chemistry	AP Physics	Honors Chemistry	Honors Chemistry	AP Physics 1-2	AP Physics	
Introductory Chemistry	Anatomy	Chemistry 2	AP Chemistry	AP Environmental Science	Physical Science	
Applied Chemistry	Biotechnology	Genetics	Physics	Anatomy and Physiology	Anatomy and Physiology	
PCT Fundamentals of Chemistry	Mechatronics Robotics		AP Physics			
PCT Medical Terminology	Competitive Robotics		Anatomy and Physiology			
Introduction to Health Careers	Environmental Science		Senior Stem			
Earth and Space Science	Science Matters					
HU Honors Blotechnology						
Honors Physics						
Honors Waves, Sound, and Optics						
Honors Electricity and Magnetism						
Honors Organic Chemistry						
Honors Anatomy						

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Document

\* Animal, Plant, and Soil Science will be taught by Vocational Agriculture teacher.
\* Some courses will be offered on an every-other year basis.

### Merged Science Course Sequences (6-12)

Honors       Grade K       Grade 1       Grade 2       Grade 3       Grade 4       Grade 5       Grade 6       Grade 6       Grade 7       Grade 6       Grade 8       Science       Biology       Chemistry       Biology         Academic       Grade K       Grade 1       Grade 3       Grade 3       Grade 4       Grade 5       Science       Science       Science       Biology       Chemistry       Biology         Academic       Grade K       Science       Science       Science       Science       Science       Science       Science       Science       Science       Biology       Chemistry       Science	equence	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 1
Sequence     Science											Environmental			AP or Hono Science Bective
Paced Sequence       Grade 1 Science       Grade 3 Science       Grade 4 Science       Grade 5 Science       Grade 6 Science       Grade 8 Science       Grade 8 Science       Science       Mathematication Science       Appled Biology Demistry       Science       Science <td></td> <td>Biology</td> <td>Chemistry</td> <td>Science Bective</td>												Biology	Chemistry	Science Bective
Electives Electives Electives Electives Elective											Science Introductory	Applied Biology		Science Bective
	Electives											Science PCT Fund. of	Science PCT Fund. of Chemistry PCT Medical Terminology HU Honors Biotechnology Honors Anat. and Phys. Applied Chemistry Introduction to Health Careers Keystone	Barth/Spa Science PCT Fund. Chemistr PCT Medi Terminolo Honors An Biotechnol Honors An Biology Honors Phy Honors Phy Honors Wa Sound, Op Honors Bec and Magne

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### **Merged Social Studies Course Offerings (6-12)**

Merged	Hanover	Halifax	Lewisburg	Littlestown	Mifflinburg	Susquenita
Social Studies Grades K-8	Social Studies Grades K-8	Social Studies Grades K-8	Social Studies Grades K-7	Social Studies Grades K-5	Social Studies Grades K-8	Social Studies Grades K-8
Civics and Government	Foundation of America	American History 9	American History	World Geography	American Cultures 1-2	Geography and World Cultures
Applied Civics and Government	Foundations of Government & Civics	Academic American History 9	American Citizenship	Ancient Civilizations	Honors American Cultures 1-2	Modern American History
AP US Government and Politics *	American History	Honors American History 9	America in the Modern World	US History (1492-1877)	AP United States History	AP US History
US History	AP US History	US History 10	AP US History	Academic American Studies 2	World Cultures	World History
Honors US History	Modern World History	Academic US History 10	World History	AP US History	Honors World Cultures	Comparative Civics and Economics
Applied US History	AP European History	Modern World History	Global Issues	Academic Civics	Economics	Psychology
AP US History	Economics	Economics	AP European History	CIVICS	Consumer Economics	AP Psychology
World History	Government	Academic Economics	Economics	AP US Government and Politics	Psychology	Sociology
Honors World History	Humanities	Principles of Democracy	AP Economics	Academic Global Studies	AP Psychology	
Applied World History	Psychology	Honors World Religions	AP US Government and Politics	Global Studies	Government	
Microeconomics	Sociology		Psychology	Psychology 1-2	AP European History	
Macroeconomics	Reel History		Sociology	AP Psychology		-
Personal Finance				AP Microeconomics		
Local History				AP Macroeconomics		
Psychology				The American Presidency		
Sociology				Modern American Conflicts		
US Conflicts				Contemporary Issues		
Contemporary Issues					-	

#### Merged Social Studies Course Offerings

\* Not currently offered in either district

Geography

\*\* As per PDE regulations, personal Finance can be taken for a social studies credit but can be taught by a teacher with Secondary Mathematics, Secondary Social Studies, or Business Education certification.

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### **Merged Social Studies Course Sequences (6-12)**

	Merged Social Studies Sequences												
Sequence	Grade K	Grade 1	Grade 2	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8	Grade 9	Grade 10	Grade 11	Grade 12
Honors Sequence	Grade K Social Studies	Grade 1 Social Studies	Grade 2 Social Studies	Grade 3 Social Studies	Grade 4 Social Studies	Grade 5 Social Studies	Grade 6 Social Studies	Grade 7 Social Studies	Grade 8 Social Studies	Honors World History	Honors US History	AP US History	AP US Government and Politics
Academic Sequence	Grade K Social Studies	Grade 1 Social Studies	Grade 2 Social Studies	Grade 3 Social Studies	Grade 4 Social Studies	Grade 5 Social Studies	Grade 6 Social Studies	Grade 7 Social Studies	Grade 8 Social Studies	World History	US History	Civics and Government	Social Studies Electives
Paced Sequence	Grade K Social Studies	Grade 1 Social Studies	Grade 2 Social Studies	Grade 3 Social Studies	Grade 4 Social Studies	Grade 5 Social Studies	Grade 6 Social Studies	Grade 7 Social Studies	Grade 8 Social Studies	Applied World History	Applied US History	Applied Civics and Government	Social Studies Electives
										Geography	Geography	Geography	Geography
										Local History	Local History	Local History	Local History
											US Conflicts	US Conflicts	US Conflicts
Electives												Micro Economics Macro Economics	Micro Economics Macro Economics
												Psychology	Psychology
												Sociology	Sociology
												Contemporary Issues	Contemporary Issues
												Personal Finance	Personal Finance
• All Advar	Students may only enroll in Paced sequence courses with administrative permission.     All Advanced Placement courses are weighted at 1.10 and all Honors courses are weighted at 1.05     All electives are semester courses												

Click The Image To Open The Merged Social Studies Course Sequences PDF Document

## **Professional Staffing Core Courses (6-12)**

Core Subject	Number of Teachers Required in a Merged District	Current Number of Teachers in Individual Districts (Combined)	Difference
English/Language Arts 6-12	10	12	(-2)
Mathematics 6-12	10	11.5	(-1.5)
Science 6-12	11	11	No Change
Social Studies 6-12	10	11	(-1)
Reading Specialist 6-8	1	1	No Change
Learning Support 6-12	6	7	(-1)
Emotional Support 6-12	2	3	(-1)
Life Skills Support 6-12	2	2	No Change
Totals	52	58.5	(-6.5)

# Grades 6-12 Ancillary Course/Program Offerings and Teacher Complement

Ancillary Subject	Number of Teachers Required in a Merged District (Grades 6-12)	Current Number of Teachers in Individual Districts (Combined)	Difference
Art	3	3.5	(5)
CTE Agriculture	2	2	No Change
Business	3	4	(-1)
CTE Building Trades	1	1	No Change
CTE Diversified Occupations	1	1	No Change
Driver Education	.15 (facilitator)	.15 (facilitator)	No Change
Family and Consumer Science	1	.5	(+.5)
Guidance	3	4	(-1)
Health and Physical Education	5	8	(-3)
Industrial Arts/Technology Education	3	3	No Change
Library Science	2	2 + 1 para	(-1 para)
Music	3	4	(-1)
World Languages	2	3	(-1)
Totals	29	37	(-8)

# Special Education Out-of-District Educational Placements

#### MASD & UDASD Out-of-District Educational Placements (2020-2021)

<u>Disability categories:</u> Autism, Emotional Support, Hearing Impaired, Specific Learning Disability, and Multiple Disabilities Support.

Grade Span (Number of Students)	Cost
K-5 (14)	\$751,215
6-8 (6)	\$276,698
9-12 (10)	\$391,933
Totals: (30)	1,419,846

# Summary of Potential Position & Expense Reductions in a Merged District

Position	Change in Positions (PEL)	Savings (PEL)	Change in Positions (Admin)	Savings (Admin)
Administrative	-3	\$240,000	-3	\$240,000
Professional Staff	-28	\$1,764,000	-22	\$1,386,000
Support Staff	-9	\$243,156	-9	\$243,156
Staff/Salary Reductions	-40	\$2,247,156	-34	\$1,869,156
Healthcare		\$351,902		\$299,117
SS/PSERS/UC/WC (23.08%)		\$518,644		\$431,401
Total Recurring Savings		\$3,117,702		\$2,599,674

# Curriculum Advantages of a Merger

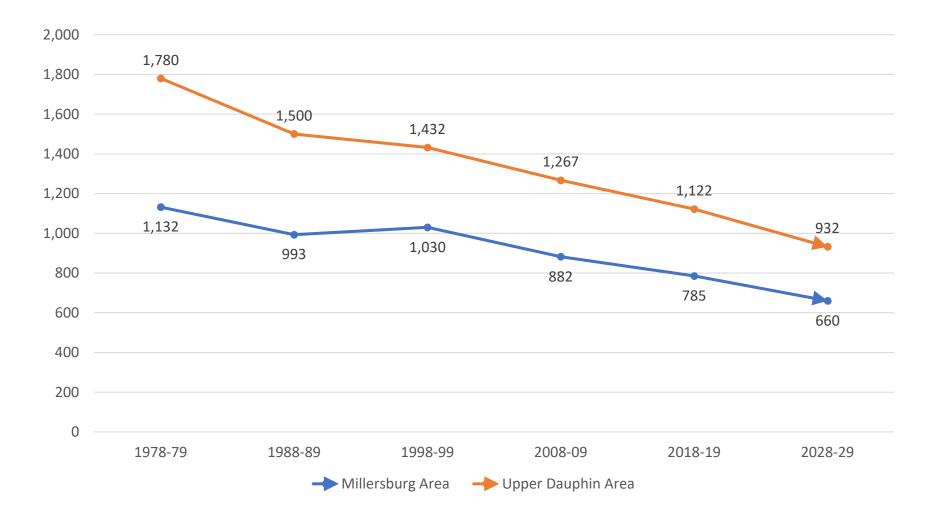
- A merged district will address the steady decline and projected decrease in student enrollment.
- A merged district may allow for sustainability and improvement of programs more efficiently with a reduction and cost savings of 21 teaching positions.
- A merged district may allow for the return of some outside contracted student support services which would create a cost savings to the taxpayers of both districts.
- A merged district will allow for class size averages to be comparable with area districts of similar size.
- A merged district will allow for special education supports (especially learning support) to be enhanced without additional special education teachers.

# Curriculum Advantages of a Merger

- Summary of program enhancements for secondary students in a merged district.
  - Career and technology education program access; Vocational Agriculture; Building Trades; and Diversified Occupations.
  - Drivers Education Theory
  - Family and Consumer Science (9-12) and Technology Education/Industrial Education (6-12)
  - Enhanced school counselor support
  - Enhanced Media Resource Centers
  - o English Language Arts: Advanced Placement Language and Composition
  - Math: Harrisburg University Algebra I; Personal Finance.
  - Science: Honors Electricity and Magnetism; Honors Waves, Sound, and Optics; PC Medical Terminology; PC Fundamentals of Chemistry; Harrisburg University Honors Biotechnology
  - Social studies: Advanced Placement Government and Politics; Local History; and Honors Civics and Government.

**Consolidation Feasibility Study** 

#### Remember: Why Now? Declining Enrollments



## Questions from the Boards?