

ennsylvania

State Normal School,

Edinboro, Pa.

1892-3.

Board  
Ball

Girls  
Room

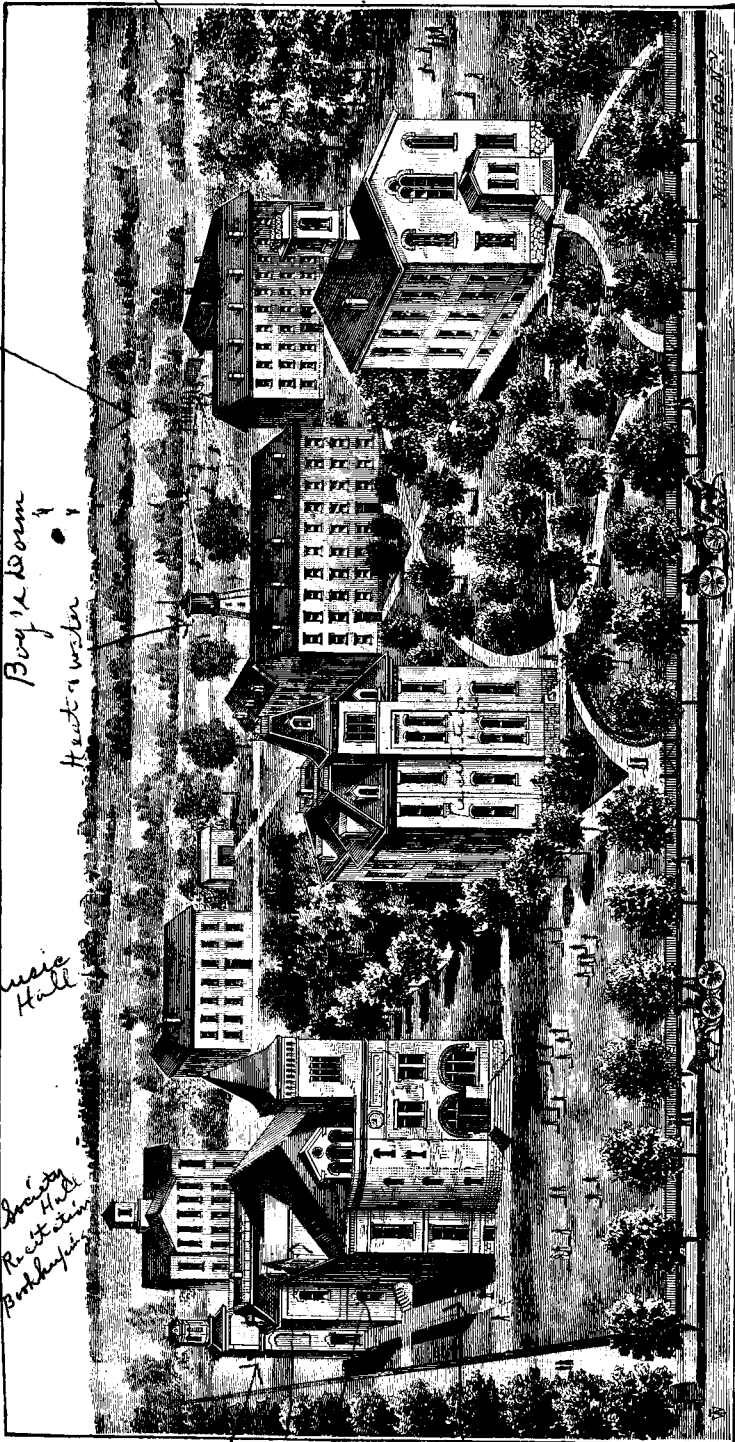
Science  
Hall  
Rectory

Boys Room  
Heat & water

Music  
Hall

Faculty  
Rectory  
Bookkeeping

classroom  
Boys  
& floor  
Boys  
Hall  
class  
room  
bookkeeping



VIEW OF THE BUILDINGS AND GROUNDS OF THE STATE NORMAL SCHOOL.

THIRTY-FIRST  
▶ ANNUAL CATALOGUE, ▶

OF THE

NORTHWESTERN

STATE NORMAL SCHOOL,

TWELFTH DISTRICT,

EDINBORO, PENN'A.

---

1892-1893.

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YEAR BOOK OF GENERAL INFORMATION.

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Erie, Pa.:  
Dispatch Printing and Publishing Co., Ltd.  
1892.

# State Board of Examiners.

1892.

HON. HENRY HOUCK,  
*Deputy State Superintendent Public Instruction.*

G. M. D. ECKELS, A. M.,  
*Principal of State Normal School, Seventh District.*

GEORGE B. LORD,  
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MARTIN G. BENEDICT, A. M.,  
*Principal of State Normal School, Twelfth District.*  
*Line of Cooper fight*

## Standing Committees.

### Committee on Teachers.

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*My old stand by's*

## FACULTY.

1892-1893.

MARTIN G. BENEDICT, A. M., PRINCIPAL,  
*Psychology and Philosophy of Education.*

\*G. A. LANGLEY, A. M., *Father's*  
*Literature.* *teacher*

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*Methods and Principal of Model School.*  
*my teacher*

ROSA FEE, PRECEPTRESS,  
*Literature and Reading.*

CHARLES J. BOAK, M. E. D.,  
*Mathematics.*

CHARLOTTE R. DUTTON,  
*Rhetoric and Grammar.*

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*Assistant in Model School.*

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*Director of Music Department.*

MAE HORTON,  
*Instrumental Music.*

NEWTON D. HAWKINS, *Wied 1962.*  
*Teacher of Violin.*

(To be supplied.)  
*Librarian.*

*once owned my  
1st. Car  
1906 Franklin*

# Board of Trustees.

## OFFICERS.

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J. T. WADE,	JOHN McLENATHAN.



## Catalogue of Students, 1892.

NAME.	POST OFFICE.	COUNTY.
Adams, Forest	Edinboro,	Erie.
Aggers, George C.	Edinboro,	Erie.
Aggers, Conrad	Edinboro,	Erie.
Agnew, Sarah	Crothers,	McKean.
Agnew, Gertrude	Emlenton,	Venango.
Alward, Ralph	Edinboro,	Erie.
Amy, Benjamin	Brown Hill,	Crawford.
Amidon, Mary	Rundells,	Crawford.
Anderson, Etta <i>my teacher</i>	Edinboro,	Erie.
Anderson, Leo	Edinboro,	Erie.
Arneman, Vernon <i>a friend</i>	Edinboro,	Erie.
Aubel, Henry D.	Greenville,	Mercer.
Baird, Bertha	Adamsville,	Crawford.
Baker, Daisy	Greenville,	Mercer.
Baldwin, Edith J.	Edinboro,	Erie.
Baldwin, Karl	Edinboro,	Erie.
Baker, Alice A.	Edinboro,	Erie.
Bayle, B. S.	McLane,	Erie.
Babcock, John Ransom	Youngsville,	Warren.
Barns, Hattie May	Albion,	Erie.
Baumgartner, Ernest	Fairview,	Erie.
Bailey, Josephine M.	Sharon,	Mercer.
Bently, Edna	Albion,	Erie.
Benn, Edna Olivia	Allegheny,	Allegheny.
Beightol, Lydia	Dempseytown,	Venango.
Bennett, Adda A	Franklin Corners,	Erie.
Blanchard, Judson Lee	Plum,	Venango.
Bootes, Jennie	Waterford,	Erie.
Boyer, Jennie	Monroe,	Clarion.
Boal, James R	Cochranton,	Crawford.
Boyd, Lavonia	Coon's Corners,	Erie.
Boyd, Edith D.	Coon's Corners,	Erie.
Bogartus, Peter	Black Ash,	Crawford.
Bogne, Charles H.	Lowville,	Erie.
Brown, W. F.	Punxsutawney,	Jefferson.
Braddock, Lizzie	Wind Ridge,	Greene.
Brunton, Maud	Seventy-Six,	Beaver.
Bradshaw, Anna A.	Coal Valley,	Allegheny.
Brown, E. Clint.	Southard,	McKean.

## PENNSYLVANIA STATE NORMAL SCHOOL

NAME	POST OFFICE	COUNTY
Brown, Bonnie Bell	McKean,	Erie.
Burger, Frank	Drake's Mills,	Crawford.
Byerly, J. A.	Kelso,	Washington State.
Byham, R. C.	Sugar Lake,	Crawford.
Carothers, Edward D.	Hamilton Station,	Washington.
Carrington, Carrie E.	Edinboro,	Erie.
Carrington, Myrtle	Edinboro,	Erie.
Carr, Effie M.	Conneautville,	Crawford.
Clark, Herbert J.	Grand Valley,	Warren.
Clark, George William	Geneva,	Crawford.
Clark, Cora	Williston,	Potter.
Clark, James Ross	Geneva,	Crawford.
Cleland, Margaret	Beaver Center,	Crawford.
Cooper, Sarah F	Harrisville,	Butler.
Coe, Agnes T.	Parker's Landing,	Armstrong.
Conley, Margaret B.	Tamarac,	Crawford.
Coulter, John Witherspoon	Crawford's Corners,	Venango.
Cole, Emma	Dinsmore,	Washington.
Coventry, W. R.	Frankfort,	Beaver.
Colburn, Dora	Edinboro,	Erie.
Cowen, John	Edinboro,	Erie.
Crook, Gertrude	Corry,	Erie.
Crandall, Lynn	McLane,	Erie.
Crandall, Thomas H.	McLane,	Erie.
Cutler, Alice <i>my teacher</i>	Edinboro,	Erie.
Culbert, Lida G.	Buena Vista,	Allegheny.
Culbertson, Elizabeth	Edinboro,	Erie.
Cutler, Frank <i>the tenor</i>	Edinboro,	Erie.
Daniels, W. L.	Wayland,	Crawford.
Darrow, E. A.	Tillotson,	Erie.
Day, Lem Clarence	Sparta,	Washington.
Davidson, S. T.	Union City,	Erie.
Daley, Kate	Franklin Corners,	Erie.
Deamer, Hattie E.	Wesleyville,	Erie.
Dewey, Clara	Wayland,	Crawford.
Dewey, Flora E.	Wayland,	Crawford.
De Arment, James M.	Stony Point,	Crawford.
Dinsmore, Alice	Bute,	Montana.
Donald, Jennie	Oakdale,	Allegheny.
Doing, Lilly	Edinboro,	Erie.
Doing, John <i>friends</i>	Edinboro,	Erie.
Drake, Harry	Little Cooley,	Crawford.
Dundon, Thomas M.	Crossingville,	Crawford.
Duntley, Rose H.	Smethport,	McKean.
Eaton, C. C.	Philipsville,	Erie.
Edmunds, Jennie	Bruin,	Butler.

OF THE TWELFTH DISTRICT.

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NAME.	POST OFFICE.	COUNTY.
Edwards, Alberta	Edinboro,	Erie.
Eldred, Maye	Titusville,	Crawford.
Ellsworth, Frank	Boscobel,	Westchester, N. Y.
Ewing, Maggie	Townville,	Crawford.
Fitch, Eva	Kinsman,	Ohio.
Fleek, Bernice A.	Edinboro,	Erie.
Flynn, John F.	Edinboro,	Erie.
Freeman, Della	Crossingville,	Crawford.
Fuller, H. Gratz	Harmonsburg,	Crawford.
Gilmore, Loey Anna	McLane,	Erie.
Gilmore, Wilse Clark	Blooming Valley,	Crawford.
Gillette, Ida	Linesville,	Crawford.
Giering, Belle J.	Foxburgh,	Clarion.
Gleeton, W. Milo	Itley,	Erie.
Goodell, Todd <i>fd</i>	Edinboro,	Erie.
Goodell, Lena C.	Edinboro,	Erie.
Goodrich, Emma	Edinboro,	Erie.
Goodbane, Anna E.	Sterretania,	Erie.
Greenawalt, Clara R.	West Newton,	Westmoreland.
Greenlaugh, Ella	Venango,	Crawford.
Gridley, Clara	Ulysses,	Potter.
Greenfield, Harry <i>fd</i> ,	Edinboro,	Erie.
Guenther, James H.	Whitesburg,	Armstrong.
Hanson, Alice S. <i>Hugh Sch</i> ,	Edinboro,	Erie.
Harris, Lottie	McLane,	Erie.
Harrison, Minnie	Vroman,	Crawford.
Haggerty, F. H.	Clark's Mills,	Erie.
Hayes, Anna	Edinboro,	Erie.
Harrison, Juna	Vroman,	Crawford.
Harris, N. M.	McLane,	Erie.
Harrison, Blanche	McLane,	Erie.
Hawkins, Ida Jane	Edinboro,	Erie.
Harned, Lillie V.	Edinboro,	Erie.
Hall, Lenora	Little Genessee,	N. Y.
Hartley, E. E.	Nasby,	Clinton.
Harrison, Irene	Vroman,	Crawford.
Hawkins, Charles L. <i>fd</i>	Blooming Valley,	Crawford.
Harris, Norman	McLane,	Erie.
Henderson, Mai	Elizabeth,	West Va.
Henninger, John	Butler,	Butler.
Henderson, Harry	McKean,	Erie.
Hipple, Eva Rose	Plum,	Venango.
Hickok, Grace E.	Edinboro,	Erie.
Hile, J. Ward	Westover's,	Clearfield.
Hile, Fred	Westover's,	Clearfield.
Houston, Jeannette	Canonsburg,	Washington.

NAME.	POST OFFICE.	COUNTY.
Hobbs, Etta J.	New Cumberland,	Hancock, W. Va.
Hobbs, Jennie,	New Cumberland,	Hancock, W. Va.
Howard, Albert P.	Franklin Corners,	Erie.
Homan, George	Shaw's Landing,	Crawford.
Homan, S.	Shaw's Landing,	Crawford.
Holmes, Louis J.	Cherry Grove,	Warren.
Humphreys, Frank R.	Lane's Mills,	Jefferson.
Humes, Dennis E.	Woodcock,	Crawford.
Irwin, Cora M.	Coon's Corners,	Crawford.
Irons, Phoebe	Linesville,	Crawford.
Jameson, Flora J.	Petrolia,	Butler.
Jeffords, Edson E.	McLane,	Erie.
Jeffords, Lizzie	McLane,	Erie.
Jones, Alfred	Mammoth,	Westmoreland.
Kearney, H. A.	Brockwayville,	Jefferson.
Kearney, Thomas	Brockwayville,	Jefferson.
Kelly, Tillie W.	Adamsville,	Crawford.
Kerr, Lydia	Gresham,	Crawford.
Keeler, Pearl Mary	McLane,	Erie.
Kerr, Tillie	Gresham,	Crawford.
Keeler, Anna	Edinboro,	Erie.
Kinter, Alfred L. <i>wife's cousin</i>	Edinboro,	Erie.
Kingsley, Emma	Edinboro,	Erie.
Kingsley, Edna <i>Edna</i>	Edinboro,	Erie.
Kline, Grant	Edinboro,	Erie.
Kleckner, Ada L.	Edinboro,	Erie.
Kleckner, Minnie	Edinboro,	Erie.
Kleckner, Maud	Edinboro,	Erie.
Knowlton, Mable	Edinboro,	Erie.
Knapp, Franc	Edinboro,	Erie.
Kupper, L. V. <i>took my class photo 1908</i>	Edinboro,	Erie.
Larimer, Dove <i>Edna</i>	Edinboro,	Erie.
Langley, Louis Anderson	Edinboro,	Erie.
Langley, Leona May	Cambridge,	Crawford.
Lackner, George W.	North Pine Grove,	Clarion.
Lang, Sadie E.	Cochranon,	Crawford.
Lawther, James H.	Whitesburg,	Armstrong.
Lawrence, M. F.	Edinboro,	Erie.
Leo, Maggie	Meadville,	Crawford.
Lewis, Mamie	Oil City,	Venango.
Lewis, Frank	Mosiertown,	Crawford.
Lewis, Bessie	Emporium,	Cameron.
Long, Maude	Lindsey,	Jefferson.
Long, Alice	Lindsey,	Jefferson.
Long, Anna M.	Lindsey,	Jefferson.
Long, Charles	Lindsey,	Jefferson.

## OF THE TWELFTH DISTRICT.

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NAME.	POST OFFICE.	COUNTY.
Luse, Henry	Edinboro.	Erie.
Mars, Nora	Gresham,	Crawford.
Mars, Cora	Gresham,	Crawford.
Martin, Calvin O.	Petersburgh,	Ohio.
Martin, Lillian	Petersburgh,	Ohio.
Marsh, Wilber	McLane,	Erie.
Maloney, Emma Adella	Wayland,	Crawford.
Maloney, Gertie Sadie	Wayland,	Crawford.
Maloney, Mary Gladys	Wayland,	Crawford.
Mayes, Elzy	Newland,	Ohio.
McCarty, Charles John	Crossingville,	Crawford.
McCamman, Charles Levi	Edinboro,	Erie.
McCain, Ella	Cobham,	Warren.
McEnery, Maggie	Belle Valley,	Erie.
McGill, Duff	Harmonsburg,	Crawford.
McGuire, Lulu	Conneautville,	Crawford.
McKay, Hugh	Black Ash,	Crawford.
McKnight, Ella	Buena Vista,	Allegheny.
McLallen, James Irvin	McLallen's Corners,	Erie.
McLallen, Cora Blanch	McLallen's Corners,	Erie.
McLaughlin, Michael	Crossingville,	Crawford.
McLaughlin, Charles J.	Sterretania,	Erie.
McMurren, Durant Leroy	Greenville,	Mercer.
McNeely, J. F.	Royalton,	Crawford.
McQuiston, Rose L.	Adamsville,	Crawford.
McQuiston, Cora	Stony Point,	Crawford.
Meehan, Agnes	McLane,	Erie.
Metzenbacher, William	Woodcock,	Crawford.
Metzenbacher, Estella	Woodcock,	Crawford.
Mehring, Cora E.	Lindsey,	Jefferson.
Mischler, Lizzie	Franklin Corners,	Erie.
Mitchell, F. W.	McKean,	Erie.
Miller, Anna	North East,	Erie.
Miller, Melvin J.	Geneva,	Crawford.
Miller, Arthur O.	Edinboro,	Erie.
Miller, C. A.	Platea,	Erie.
Miller, C. D.	West Millcreek,	Erie.
Morrow, Herbert	Rundells,	Crawford.
Morrow, Jennie	Rundells,	Crawford.
Morrow, Mertie	Rundells,	Crawford.
Morris, Frederick W.	Vroman,	Crawford.
Moriarty, Vinnie	Emlenton,	Venango.
Mortzky, Carrie R.	Warren,	Warren Co.
Nash, Ellen	Crossingville,	Crawford.
Nelson, F. F.	London,	Mercer.
Nelson, George W.	Hickernell,	Crawford.

NAME.	POST OFFICE.	COUNTY.
Nesbit, Hugh	McLane,	Erie.
Neyland, Minnie	Guy's Mills,	Crawford.
Newsham, F. W.	Wattsburg,	Erie.
Niles, Ella	Edinboro,	Erie.
Noyes, Lena	Francis,	Erie.
Oiler, Frederic David	Shamburg,	Venango.
Ornsdorf, O. F.	Harveys,	Greene.
Osborn, Grant	Erie,	Erie.
Parker, Lizzie	Lincolnton,	Crawford.
Parker, Emma	North East,	Erie.
Passmore, Maud	Eldred,	McKean.
Pearse, C. J.	Edinboro,	Erie.
Perry, Mary Melinda	Mill Village,	Erie.
Phelps, Grace E.	Edinboro,	Erie.
Platt, Maggie	Edinboro,	Erie.
Platt, George H.	Edinboro,	Erie.
Porter, Grace	McLane,	Erie.
Pond, Emma E.	Townville,	Crawford.
Polly, Louise	Bousson,	Crawford.
Pulling, Emma F.	Crossingville,	Crawford.
Pulling, Grant	Edinboro,	Erie.
Quinn, Nelly Anna	Pleasantville,	Venango.
Rankin, Jennie C.	Boston,	Allegheny.
Ralston, Samuel Harry	Waterford,	Erie.
Reagle, James Angus	Franklin,	Venango.
Reeder, Prentice	Edinboro,	Erie.
Reeder, Harry Oliver	Edinboro,	Erie.
Reeder, Anna	Edinboro,	Erie.
Reeder, Chas. J.	Edinboro,	Erie.
Reno, Loren Marion	Edinboro,	Erie.
Reynolds, Myrtle	Edinboro,	Erie.
Rice, Lucy	New Freeport,	Greene.
Rice, Homer C.	New Freeport,	Greene.
Richards, Louise	Riceville,	Crawford.
Robinson, Lou	Edinboro,	Erie.
Robinson, Edith	Edinboro,	Erie.
Rose, Delmer	Geneva,	Crawford.
Rossiter, Alice	Girard,	Erie.
Rowerty, Vinnie	Emlenton,	Venango.
Rupert, Alice	Mariasville,	Venango.
Ryan, T. M.	McLallen's Corners,	Erie.
Salisbury, Edna O.	Emlenton,	Venango.
Sauers, Maggie	Edinboro,	Erie.
Sauers, Anna	Edinboro,	Erie.
Sammons, B. W.	Wattsburg,	Erie.

NAME.	POST OFFICE.	COUNTY.
Schmuck, Elizabeth	Emlenton,	Venango.
Seraford, Grace Ada	Edinboro,	Erie.
Shakleton, William <sup>7d</sup>	Edinboro,	Erie.
Shepherd, Fannie	Edinboro,	Erie.
Sherrets, Lottie B.	Venango,	Crawford.
Sherer, Charles	Mill Village,	Erie.
Sibble, John Edwin	Edinboro,	Erie.
Sibble, Ida May	Union City,	Erie.
Skelton, Effie	Venango,	Crawford.
Skinner, Ada E.	McLane,	Erie.
Slocum, E. E.	Moslertown,	Crawford.
Smith, Edward C.	Albion,	Erie.
Smith, Grace G.	East Springfield,	Erie.
Smith, Maurice	McLane,	Erie.
Smith, Della	Seneca,	Venango.
Smith, Harry H.	Seneca,	Venango.
Sowle, Evelyn	Cooper Track,	Forest.
Sowle, Clifton	Cooper Track,	Forest.
Southwick, Pearl T.	Glyndon,	Crawford.
Spaulding, Mabel	Edinboro,	Erie.
Spaulding, Inez.	Edinboro,	Erie.
Standcliff, David Miller	Edinboro,	Erie.
Standcliff, Thomas A.	Edinboro,	Erie.
Standcliff, Mary	Edinboro,	Erie.
Stafford, Hattie F.	Franklin's Corners,	Erie.
Stafford, Fred	Edinboro,	Erie.
Stafford, Anna	Cyclone,	McKean.
Stanford, Kate	Edinboro,	Erie.
Steadman, Fred	Edinboro,	Erie.
Stewart, Ida W.	Vroman,	Crawford.
Stewart, Peter W.	Vroman,	Crawford.
Stewart, Mamie B.	Vroman,	Crawford.
Stewart, Reba	Vroman,	Crawford.
Stuart, Rose R.	Sligo,	Clarion.
Sturtevant, Ina B.	Shadeland,	Crawford.
Stowe, Edith Myrtle	Wattsburg,	Erie.
Taylor, Carlton James	Edinboro,	Erie.
Talmage, M. J.	McKean,	Erie.
Timmons, John	Lavery,	Erie.
Torry, Vinnie	Venango,	Crawford.
Torry, Lee J.	Edinboro,	Erie.
Vaughn, John M.	Crossingville,	Crawford.
Wade, William Walter	Edinboro,	Erie.
Wade, Margaret Maud	Edinboro,	Erie.
Wait, Dona N.	Edinboro,	Erie.

## PENNSYLVANIA STATE NORMAL SCHOOL

NAME.	POST OFFICE.	COUNTY.
Walt, Lonna G.	Edinboro,	Erie.
Walrath, Alice	Edinboro,	Erie.
Walrath, Franc	Edinboro,	Erie.
Walrath, Alberta	Edinboro,	Erie.
Walter, Maggie Victoria	Erie,	Erie.
Washburn, Burt	Franklin Corners,	Erie.
Waterhouse, Lester	Cambridge,	Crawford.
Weigle, Orville	West Millcreek,	Erie.
Whitman, Charles R.	Edinboro,	Erie.
White, Addison	West Middlesex,	Mercer.
White, Cora	Bradleytown,	Venango.
White, Etta	Edinboro,	Erie.
Whitling, Dora May	Marienville,	Forest.
Whitling, Howard	Bradford,	McKean.
Wiard, Henry W.	Crossingville,	Crawford.
Wilson, Anna L.	Edinboro,	Erie.
Williams, Cora B.	North East,	Erie.
Winton, Judd	Centreville,	Crawford.
Wiseman, Anna	Drake's Mills,	Crawford.
Wiseman, Tena	Edinboro,	Erie.
Woodard, Peter M.	Edinboro,	Erie.
Woodard, W. H.	Drake's Mills,	Crawford.
Wright, Earnest S.	Franklin Corners,	Erie.
Wright, C. J.	Franklin Corners,	Erie.
Wymer, Mary Alice	New Castle,	Lawrence.
Young, Emma	Fredonia,	Mercer.
Young, Burt	Girard,	Erie.
Zaun, George W. <sup>my</sup> <i>teacher</i>	Swanville,	Erie.
Zimmerman, Wesley C.	Strabane,	Washington.
Zahiniser, Robert	Grove City,	Mercer.

## SUMMARY.

Males.....	142
Females.....	178
Model School.....	220
Total.....	530





Commencement Exercises.

JUNE 29th, 1892.

Music	-----	Spanish Fantasia
	SCHOOL ORCHESTRA.	
	PRAYER.	
Piano Solo	-----	Harp Eolian, Sid Smith
	MISS LENA GOODELL.	
Oration	-----	"Perseverance"
	ADDISON WHITE.	
Oration	-----	"Fated Words"
	MISS MARY FERRY.	
Oration	-----	"Self Culture"
	S. H. RALSTON.	
Song	-----	"Storm Fiend," Roeckel
	MISS ADDIE KLECKNER.	
Oration	-----	"The Future System of Taxation"
	E. CLINT BROWN.	
Oration	-----	"Columbus"
	W. H. WOODARD.	
Oration	-----	"Breakers Ahead"
	MISS ALICE RUPERT.	
Violin Solo	-----	{ (a) Adagio (Melancholie)
		{ (b) Tanz Hungarisc.
	NEWTON HAWKINS.	
Oration	-----	"Patriotism"
	W. W. WADE.	
Oration	-----	"Rags and Tags in Velvet Gowns"
	MISS EDNA BENN.	
Oration	-----	"Danger Signals"
	LOUIS A. LANGLEY.	
Oration	-----	"Passing Faces"
	MISS LEONA LANGLEY.	
Bass Solo	-----	"Abbey Bell," Cowles
	E. J. MEISSNER.	
Oration	-----	"The Death Penalty"
	L. C. DAY.	
Oration	-----	"Tips and Tolls"
	MISS ANNA G. REEDER.	
Oration	-----	"Open Doors"
	MISS MARGARET M. WADE.	
	DIPLOMAS.	
Music	-----	Selected
	SCHOOL ORCHESTRA.	

## Courses of Study.

Two courses of study are prescribed by law for the State Normal Schools of Pennsylvania—the Elementary Course and the Scientific Course. The principals of the State Normal Schools and the Faculty of this school have arranged other courses.

### ELEMENTARY COURSE.

If the student is prepared to enter the Junior Class, it will take two years to complete this course. Political Geography, Orthography and Penmanship should be completed, and the student should have a good knowledge of Arithmetic, Algebra, United States History and English Grammar, before entering upon the course. The studies are as follows:

### JUNIOR YEAR.

Methods of Instruction.  
Reading.  
English Grammar and Composition.  
Latin—preparatory to Cæsar.  
Arithmetic (except Mensuration)  
Elementary Algebra.  
History of United States.  
Civil Government.  
Physiology and Hygiene.  
Physical and Mathematical Geography.  
Bookkeeping—Single entry.  
Drawing.  
Vocal Music.

Applicants for admission to the Senior Class must pass an examination given by the State Board of Examiners upon all the studies of the Junior year except Methods of Instruction. Graduates of High Schools and teachers of experience may take this examination, and if found proficient, are given certificates of admission to the Senior Class. This examination occurs in June.

The studies of the Senior year are as follows:

**SENIOR YEAR.**

Psychology—embracing the Intellect, Sensibilities and Will.

Methods of Teaching.

History of Education.

Semi-weekly meetings with the principal of the Model School to discuss Practical Teaching.

Twenty-one weeks of Actual Teaching in the Model School during a daily period of not less than forty-five minutes.

Outlines of Rhetoric.

English Literature, including the thorough study of one selection from each of four English classics

Latin—Cæsar.

Plane Geometry and Mensuration.

Natural Philosophy.

Botany.

Elocutionary Exercises.

A Thesis on some Educational Subject.

At the close of the Senior year the State Board of Examiners give an examination upon the branches of that part of the course. A diploma, in which are named the branches of the course, is given to those found proficient, and confers upon the holder the degree of Bachelor of the Elements. This diploma permits the holder to teach in the Public Schools of Pennsylvania without examination for two full school years.

No person can graduate from a Pennsylvania State Normal School who has not been in actual attendance twenty-one weeks.

For information regarding master diplomas see page 18.

**POST-GRADUATE COURSE.**

The principals of the State Normal Schools of Pennsylvania have arranged the following Post-Graduate Course. It can be completed in one year after finishing the Elementary Course:

Mathematics—Solid Geometry; Plane Trigonometry and Surveying.

Latin—Three books of Cæsar and three books of Virgil.

Natural Sciences—Chemistry, Zoology and Astronomy.

History and Literature—General History; History of English and American Literature, with notes and criticisms, and a course of general reading.

Pedagogy—Psychology; Moral Philosophy; Logic, and a course of professional reading, including Quick's Educational Reformers; Payne's Contribution to the Science and Art of Teaching, and Fitch's Lectures on Teaching.

**SCIENTIFIC COURSE.**

Students who have completed the Elementary and Post-Graduate Courses can complete this in one year. The studies are as follows :

**Mathematics**—Higher Algebra, Analytical Geometry, and Differential and Integral Calculus.

**Natural Sciences**—Natural Philosophy, Geology or Minerology.

**Pedagogy**—Philosophy of Education and a Thesis on a Professional Subject.

**Language**—Three books of Virgil ; four Orations of Cicero ; the Germania of Tacitus or equivalents. An equivalent of Greek, French or German will be accepted for Spherical Trigonometry ; Analytical Geometry ; Calculus ; Mathematical Astronomy, and Mathematical Natural Philosophy.

Students completing this course are examined by the State Board of Examiners at the same time as those completing the Elementary Course, and if found proficient, receive a diploma enumerating the branches of the course, and conferring upon the holder the degree of Bachelor of the Sciences.

**COLLEGE PREPARATION COURSE.**

This school will hereafter maintain a College Preparatory Course. This course will include sufficient Latin, Greek, Mathematics and Literature to prepare the student for admission to the best American Colleges.

**SPECIAL TEACHERS' CLASS.**

A special class for teachers will be formed at the beginning of the Spring term, to accommodate those who have been teaching during the winter. This course will enable them to take the studies of the junior year of the Elementary Course in three Spring terms.

**MASTER DIPLOMAS.**

Any graduate of this school who has continued his studies for two years, and has taught two full annual terms in the common schools of this State, is entitled to a diploma conferring the degree of Master of the Elements upon one who has graduated in the Elementary Course, and Master of the Sciences upon one who has graduated in the Scientific Course.

To secure this diploma the applicant must present to the Faculty and the State Board of Examiners a certificate testifying to his good moral character and skill in the art of teaching, signed

by the Board or Boards of Directors by whom he was employed, and countersigned by the Superintendent of the county in which he has taught.

These diplomas are permanent certificates of the highest grade. The holder is permitted to teach the branches therein named in the Public Schools of Pennsylvania without further examination.

#### TEXT BOOKS.

The text books on subjects generally taught in the common schools are furnished free. All other books can be obtained in the Book Room connected with the school at wholesale prices. In the Book Room is also kept a complete assortment of stationery, pens, pencils, etc.

The following list includes most of the text books now used :

*Arithmetic*—Wentworth, Robinson, Goff. *Readers*—Franklin, Harper. *Penmanship*—Spencer. *Grammar*—Reed and Kellogg, Harvey. *Geography*—Harper, Guyot, Monteith. *Algebra*—Wentworth. *Geometry*—Wentworth. *Bookkeeping*—Lyte. *Natural Philosophy*—Gage. *Physiology*—Walker, Hutchinson. *Botany*—Gray. *Rhetoric*—D. J. Hill. *U. S. History*—Montgomery, Higginson. *Civil Government*—Young, True. *Drawing*—Prang. *Vocal Music*—L. W. Mason. *Methods of Instruction*—White. *Psychology*—Bker. *Latin*—Collar and Daniell, Allen and Greenough's *Grammar*, Allen and Greenough's *Cæsar*, Harper and Tollman's *Cæsar*. *English Literature*—Shaw. *General History*—Meyer. *Dictionaries* Webster, Worcester.



## The Departments.

### PHYSICS.

Physics is taught during the Fall and Winter terms of the Senior year. This department is thoroughly equipped with apparatus, so as to permit the exhibition of many more experiments than are described in the average text book. With the actual experiment and phenomena before him, each student is led to think and reason out the working of natural laws for himself. Experiments are performed in advance of the lesson, so as to effectually call forth the original powers of the student.

A partial list of the apparatus for illustrating principles of Physics includes instruments of measurements, length, weight and capacity; instruments for illustrating physical forces, for illustrating principles of machinery, for determining specific gravity, for exemplifying principles of Hydrostatics, Hydraulics, Pneumatics, Optics, etc.; Spectroscope, Endosmeter, models of Steam Engines, apparatus for illustrating pressure of fluids, air pump, electric batteries, electric machines, electroscope, permanent and artificial magnets, magnetic needles, etc., etc.

An imported high grade hand motor has been added to the electric apparatus during the past year.

### BOTANY.

The subject of Botany is taught during the Spring term of the Senior year. The living plant is made the basis of instruction, Gray's School and Field Book of Botany being used as a guide. The flora of the locality is large, and within easy reach of the student. Two compound microscopes of high magnifying power are always in readiness for examining the delicate and intricate portions of plants and flowers. Thus analysis of plant growth and inflorescence can be conducted to a great degree of accuracy by each individual student.

Each student is required :

- (1.) To mount neatly, on suitable card board, fifty specimens of flowering plants selected from the wild flora of the vicinity, with the natural classification of each subscribed.
- (2.) To write out in list form seventy-five observed facts in reference to each of ten plants selected by the instructor.
- (3.) To write out an analysis of twenty-five plants, containing such facts as are necessary for classifying each plant.

#### PHYSIOLOGY.

As the subject of Physiology is now taught in all the Public Schools, and students are more or less familiar with the subject before entering the Normal School, the work in this department is devoted exclusively to a comprehensive and thorough review of the whole subject, with special reference to Hygiene. The student is not only expected to master in detail the important parts with their functions, and the different processes of the human body, but also to become so thoroughly acquainted with the laws of health that he can apply them intelligently in maintaining the health in any school room.

As aids to the study of Anatomy there are exhibited in presence of the students two life size skeletons—one with the bones intact, the other with the bones separate—so that not only the position but the size and shape of every bone may be thoroughly understood by the student. Also a model of the human body, with parts detachable, showing the position and comparative size of all the vital organs, the different parts of the brain, the location of the different muscles, etc. Also a complete set of the most recently approved charts, showing microscopic views of capillaries, blood corpuscles, nerve filaments, lymphatics, action of narcotics on digestion, etc., etc.

#### PHYSICAL GEOGRAPHY.

As aids to the Study of Physical Geography there are available at all times maps, charts, globes ; also apparatus for illustrating relative sizes, positions and movements of the bodies of the solar system. Especial attention is paid to the physical causes underlying the various phenomena treated under this subject. As far as practicable such subjects as atmospheric pressure, intermittent springs, etc., are explained by actual experiment before the class.

### ENGLISH LITERATURE.

The English Department includes Grammar, Rhetoric and Literature. The structure of the language, letter writing, punctuation and such composition as will be of use in every day life form the work in Grammar. The study of Technical Grammar is outlined by the teacher. Rhetoric is made as practical as possible. Manner of expression and criticism of original work is a part of the whole course, while the study of the principles of Rhetoric prepares the student to appreciate the work in Literature which follows. Fourteen weeks are devoted to the study of Literature. One complete production from each of four English Classics is given minute and critical study. This is supplemented by studies of the lives and characters of authors, and other valuable work outlined by the teacher, and by public literary exercises.

### LATIN.

In Latin we aim to make a thorough and exhaustive study of the principles of the language. We strive to show the close relationship which exists between the Latin language and our own. English words from Latin roots are traced to the original. The life and campaigns of Cæsar are critically studied. The geography of Gaul and Ancient Italy, the history of the destruction of the Republic, and the formation of the Roman Empire, are made the subject of interesting talks with the instructor.

### ARITHMETIC.

The work in Arithmetic is divided into two grades.

One begins at Decimal Fractions and completes the work as far as Percentage.

Another grade begins with Percentage and finishes the book.

There is also a general review class arranged for each term.

An effort is made to give the pupils an intelligent knowledge of the subject, and the power of independent thought, so as to obtain results rapidly and correctly. Mechanical processes and routine methods are of no value. Students here are trained to logical habits of thought, and are stimulated to a high degree of intellectual energy.



### ALGEBRA.

The work in Algebra is divided into three divisions, as follows:

One class completes the book as far as Fractions.

Another begins with Fractions and completes the book as far as Quadratic Equations.

A third begins with Quadratics and finishes the book.

We recognize the fact that Algebra is essential in all the higher mathematics, hence thoroughness is our aim. Three successive terms are given to this branch. It is commenced early in the course, and prosecuted with vigor.

### GEOMETRY.

It is generally conceded that the best mental drill is derived from the demonstration of geometrical theorems. In no other study can the language and thinking power of students be so well trained to clearness and conciseness. Problems are deduced from the theorems of the book, thus making the subject both interesting and practical.

Two terms in the Senior year are devoted to the subject of Geometry and Mensuration—twenty-one weeks to Geometry, and seven weeks to Mensuration.

### PENMANSHIP.

It is very important for every young man or woman to be able to write a rapid business hand. Recognizing the great demand in commercial pursuits for rapid business writers, and in the educational world for competent teachers of Penmanship, a special department of Penmanship is sustained. The complete course embraces plain writing, analysis, fancy writing, blackboard writing, card writing, flourishing and lettering. The work is thorough and effective.

### BOOKKEEPING.

An excellent opportunity for taking Bookkeeping in single and double entry is offered. In this practical age every teacher should have such a knowledge of the principles of Commercial Law, Bookkeeping and Business Forms as to enable him to transact business intelligently. In order to teach these things, they must be thoroughly understood. The student here, by actual

practice, becomes familiar with the duties of the merchant, the banker, the commission agent, the bookkeeper, etc., etc.

#### DRAWING.

The time is near at hand when a knowledge of Drawing will be required of every teacher. It is a valuable aid in nearly every department of school work. The aim of the instructor in this department is to make the work as practical as possible. Copying is not drawing. Students are taught to draw from simple models, forms and objects, and advanced by degrees to various different modifications of these, and to plant and animal forms.

#### MODEL SCHOOL.

This department has set apart for its use three large study rooms, with a seating capacity of not less than two hundred and seventy-five, besides ten recitation rooms, all of which are well equipped with apparatus. The light and ventilation is perfect.

The Model School is under the immediate direction of a principal and two experienced teachers, whose duty it is to guide the pupils into the right channels of study. The duty of the principal is to develop methods and devices to be carried out by the practice teachers under his charge.

This department has a double duty to perform: First, to see that the children of the Public Schools are well taught and disciplined. Second, to establish in the mind of each graduate of the Northwestern State Normal School the true relation between theory and practice. To this end the Principal of the Model School, and the teacher of Methods in the Normal, must aim.

#### MUSIC DEPARTMENT.

The aim of this department is not only to prepare teachers for leading the music in Public Schools, but also to offer facilities for higher musical culture, both for the voice and on the chief musical instruments.

#### PIANO.

In six grades—Mechanical Studies:

Spindler, Op. 131.	Czerny, Op. 636, Bk. 2.
Kohler, Op. 162 and 151.	LeCoupey, Op. 20.
Gurlitt, Op. 83, Bk. 1.	Schmitt, Op. 16.
LeCoupey, Op. 17.	Duvernoy, Op. 120.
Kohler, Op. 50.	Doring, Op. 24.
Doring, Op. 8, Bk. 1.	Czerny, Op. 118.
Gurlitt, Op. 83, Bk. 2.	Loeschorn, Op. 66.
Czerny, Op. 553.	Krause, Op. 5.
Kullack, Bk. 2.	Cramer, High Class Etudes.

In addition to these, selections will be made from the following Etudes for rythm, phrasing and expression :

Burgmuller, Op. 100.	Spindler, Op. 273, Bk. 1.
Concone, Op. 24.	Heller, 47.
Loeschorn, Op. 38 and 52.	Heller, Op. 46, Bks. 1 and 2.
Heller, Op. 45, Bks. 1, 2 & 3.	Jensen, Op. 32, Three Bks.

The musical development will be made to keep pace with the mechanical execution by the study of pieces from the works of the masters, especial attention being given to the cultivation of a musical touch and a correct interpretation of the standard works.

#### VOICE.

Vocal music is universally conceded to be the highest type of music. We owe it to ourselves and to society to bring out the capabilities of our voices, and if specially endowed we should have our gifts carefully trained.\*

The department offers a course in sight singing which is free to all Normal and Conservatory students, and also a course in voice culture comprising two years, treating of proper breathing, vocal gymnastics, phrasing, and many other things which perfect the artistic singer.

As Ferd. Sieber's school of voice building is excelled by none, it is followed, and in connection therewith, songs and recitatives and arias of oratorios and operas receive due attention.

#### VIOLIN AND 'CELLO.

This important branch of art is under the charge of a competent and experienced teacher. No other branch of music has advanced so much during the past fifteen years as the art of violin playing; and as a consequence there is an increasing demand for good teachers and skillful players. The violin is the most popular and perfect of instruments. Its mellow vox humana, its flutelike sweetness, the impassioned power of a sweep from one end of the string to the other, the ringing brilliancy of its upper register, place it at the head of musical instruments, and it all but outrivals the human voice.

As there is no such thing as becoming a skillful violinist without a good technic, it is absolutely necessary that the pupil acquire a graceful and flexible movement of the wrist, and a cor-

\*Correct voice practice has a tendency to remedy any lesser disorders of the throat or chest. A voice user with right tone emission is almost proof against bronchial affection.

rect management of the left hand. To meet this the following studies and etudes from the masters have been selected :

First Grade—Henning's First Book and Hermann's Book, Vol. I. Also Kayser's Etudes (First Book).

Second Grade—Kayser's Second Book, Hermann's Book, Vol. II., and finger exercises and technical studies by Henry Schradieck. Also easy sonatas and teaching pieces.

Third Grade—Kreutzer's forty celebrated studies, studies from Campagnoli, Fiorillo and Spohr. In this grade the pupil also studies the beautiful solos of De Beriot, Viotti, Leonard, Wieniawski and others.

#### THE 'CELLO.

This beautiful solo instrument also receives special attention, and is taught from Piatti's Celebrated School. Pupils, as soon as competent, have the advantage of orchestra practice and *ensemble* playing in both violin and 'cello departments.

#### HARMONY.

A study of Elementary Harmony is absolutely essential to every musician. The department offers a course covering two years, which includes a study of scales, intervals, naming and writing the same from sound, concord and discord, voice leading, two and three part writing, formation and progression of chords, treatment of dominant and secondary seventh chords, cadences, transposition, suspensions, sequences, exceptional chord treatment, four part writing from given basses, analysis metre, writing chorals, hymn tunes, quartets, etc.

#### ADVANTAGES.

Music Hall is devoted to the exclusive use of the department, and is provided with a pleasant hall in which Concerts, Musicales, Lectures, etc., are held. The department is also supplied with pianos, organs, band and orchestral instruments. An orchestra is maintained, which pupils are allowed to enter when sufficiently advanced. The Musicales, Recitals, Lectures, etc., are free to all pupils in music. The sight singing and chorus class, which meets daily, is one of the free classes.

The frequent Musicales, Concerts and Recitals are of great benefit to our pupils, giving them an opportunity to become acquainted with the best class of music and musicians, and at the same time practical experience in performing before others.

The advantage of being connected with such an institution as the Edinboro Normal School is of great value to our pupils.

They have the benefit of the same moral and mental discipline. Also the same privileges, in addition to, those offered by the music department.

While it is optional, it is desired that all music pupils pursue at least one or two branches in the Normal Department, in order that they may become educated and intelligent musicians and teachers.

#### BEGINNERS.

Beginners, and those not far advanced, are especially welcome, as they possess few or none of the erroneous ideas and bad habits which are so easily formed by wrong teaching or careless practice, and which prove in many cases almost insurmountable obstacles to high cultivation. They, therefore, receive more readily the correct fundamental principles, and can, as a rule, make steady and rapid progress, uninterrupted by the tedious process of unlearning bad habits.

#### REQUIREMENTS FOR GRADUATION.

Candidates for graduation must complete the course in Harmony and one other branch, and in addition must complete at least three grades in a third; as, for example, anyone finishing Voice and Harmony must also finish three grades in Piano.

To those finishing the course are given the diploma of the school, signed by the Examining Board, Faculty and Officers.

#### EXPENSES OF MUSIC DEPARTMENT.

Term consists of fourteen weeks.

Private lessons in Voice, Piano, etc., (one per week),	- -	\$10 00
Private lessons in Voice, Piano, etc., (two lessons per week),	-	16 00
One lesson per week in Voice, Piano, etc., (two in class) each,	-	8 00
Two lessons per week in Voice, Piano, Violin, (two in class) each,	12	00
Any two branches, such as Voice and Piano, (two in class) each,	20	00
Harmony and Composition (six in class) each,	- - - -	5 00
Rent of Piano, one period per day, per term,	- - - -	2 00
Rent of Organ, one period per day, per term,	- - - -	1 00
Rent of Pedal Organ, one period per day, per term,	- - - -	4 00
Single private lessons, each,	- - - -	1 00

Classes in Sight Singing, History, Musical Form are free to all music students.

Those paying full tuition in the Normal Department will receive a reduction of 20 per cent. from the catalogue price for lessons.

Instruments will not be rented for less than one-half term.

**REGULATIONS.**

Pupils of the Music Department are required to conform to all the general rules and regulations of the Normal Department.

**LITERARY SOCIETIES.**

There are two literary societies connected with the school—the Potter and the Everett. These societies hold weekly meetings, each in its richly furnished and carpeted room. There are also several debating clubs which meet weekly, affording most excellent opportunities for gaining elegance in expression, grace in appearance and force in delivery. All students are recommended to join one of these societies.

**LIBRARY.**

The Library occupies the second floor in the new Normal Hall building. It contains about six thousand carefully selected volumes. It is in care of an experienced and intelligent Librarian, whose pleasure it is to assist students in learning how to utilize such a vast collection of books.

Upon the reading tables are found the principal daily and weekly papers, the best scientific publications and all the leading magazines of current literature.

Students are privileged to use the Library whenever it is open.

**MUSEUM.**

In the Library and upon the floor above is the justly celebrated Museum of the Normal School. This was enriched several years ago by the purchase of the famous "Ennis Collection." Here the student of Natural History can find a large and valuable collection of specimens, consisting of mounted animals, birds, alcoholic specimens of fishes, reptiles, etc. Also a variety of corals, shells, minerals and Indian relics.

**RELIGIOUS EXERCISES.**

This school, while it is strictly non-sectarian, exercises great care in the moral training of its students.

All students, except such as are excused by the Principal, are required to attend morning devotional exercises in the Chapel.

Students are expected to attend public worship each Sabbath morning.

There are flourishing societies of the Y. M. C. A., Y. W. C. A. and Y. W. C. T. U. in the school. These organizations hold meetings each Sabbath afternoon.

Religious meetings are held by the students on Sunday and Friday of each week. Attendance is optional.



## Location, Buildings, Etc.

Edinboro, the seat of the State Normal School of the Twelfth District, is an attractive village of about one thousand inhabitants. It is beautifully situated on the rise of ground which separates the waters of the Great Lakes from those of the Gulf of Mexico. Lake Conneauttee, covering several hundred acres, lies just to the north of the village. The place is noted for its healthfulness and beauty. It is strictly a temperance town, and a most desirable situation for an institution of learning.

### ACCESS.

The nearest railroad station is Cambridge, on the New York, Pennsylvania & Ohio. Hacks connect with passenger trains at that place. The New York, Pennsylvania & Ohio has good connections with the Pittsburg, Shenango & Lake Erie, the Philadelphia & Erie and other railroads, giving a quick and convenient access.

### GROUNDS.

The school grounds, consisting of about twelve acres, are of surpassing beauty. They are artistically dotted with trees and shrubs of great variety. The lawns are well kept. Opportunities are offered for base ball, lawn tennis, croquet and other profitable out door games.

### BUILDINGS.

The buildings are seven in number, besides an engine house and water tower. Five are used for recitation rooms, museum, library, offices, etc.; two are boarding halls. All are heated with steam from boilers set in the boiler house. The class rooms are well lighted and ventilated, and are of comfortable size, and contain all the equipments necessary for successful class work.

### BOARDING HALLS.

The boarding halls are divided into suites of rooms, each suite consisting of a sitting room and a bed room. Two persons



usually occupy one suite. The rooms are completely and comfortably furnished. Each floor is abundantly supplied with hot and cold water, and each hall is provided with a bath room.

#### DISCIPLINE.

The rules for individual conduct are very limited. All students are expected to observe such regulations as may be needed to secure to all the greatest good. Ladies and gentlemen require no specific directions. No student whose influence is pernicious will be allowed to remain in the school.

#### BOARDING, ETC.

All students attending any department of this school, who do not live with their parents or guardians, and who are not under the immediate charge of such parents or guardians, shall be subject to the following regulations:

Students must consult the Principal or Preceptress before selecting rooms or boarding places.

Permission to change rooms or boarding places must in every case be obtained from the Principal or Preceptress.

Students must not be absent from their rooms in the evening without the consent of the teacher in charge.

Students may receive calls only during the hours devoted to recreation.

The Principal and teachers shall deem it their duty to satisfy themselves that all persons, who either keep boarders or rent rooms, exercise such supervision over the students as will secure a compliance with the spirit and intentions of the rules of school. Students will not be allowed to continue to room or board where such supervision is not maintained, or where the requirements of the school are in any way disregarded.

#### STATE APPROPRIATIONS.

The Legislature of Pennsylvania has made appropriations to Normal students and Normal graduates under the following conditions:

1. Each student over seventeen years of age who shall sign a paper declaring his intention to teach in the Common Schools of the State shall receive the sum of fifty cents per week.

2. Each student who, upon graduation, shall sign an agreement to teach in the Common Schools of the State two full annual terms, shall receive an additional sum of fifty dollars.
3. Students to secure these benefits must attend the school at least one term of twelve consecutive weeks.
4. Each student drawing an allowance from the State must receive regular instruction in Theory and Practice of Teaching.
5. If the State appropriation be not sufficient to pay the full sum of fifty cents per week, the allowance may be decreased during the Spring term.

#### STATE CERTIFICATES FOR ACTUAL TEACHERS.

The Normal School law requires the State Board of Examiners to grant State Certificates to actual teachers of the Public Schools. It is not necessary for the applicant to have attended a Normal School. These certificates are granted on the following conditions.

1. Each applicant must be twenty-one years of age, and have taught for three full successive annual terms.
2. He must present certificate of good moral character, and of successful teaching, signed by the Board or Boards of Directors by whom he was employed, and countersigned by the Superintendent of the county in which he taught.
3. The examination to be in the studies of Scientific or Elementary course as the applicant may choose, or in other equivalent branches.



## Calendar, 1892-93.

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### **Fall Term of Fourteen Weeks.**

Opens Monday, September 5, 1892.  
Closes Thursday, December 8, 1892.  
Vacation, December 8—December 12, 1892.

### **Winter Term of Fourteen Weeks.**

Opens Monday, December 12, 1892.  
Closes Friday, March 17, 1893.  
Vacation March 17—March 27, 1893.

### **Spring Term of Fourteen Weeks.**

Opens Monday, March 27, 1893.  
Baccalaureate Sermon Sunday, June 25, 1893.  
Junior Class Day, Monday, June 26, 1893.  
Conservatory Concert, Tuesday, June 27, 1893.  
Alumni Day, Wednesday, June 28, 1893.  
Commencement, Thursday, June 29, 1893.

# Examination Questions.

JUNE 6, 1892.

## GEOMETRY AND MENSURATION.

1. Define the following: (a) Geometry. (b) Plane angle. (c) Reflex angle. (d) Straight angle. (e) Locus of a point.
2. Prove that the sum of the three angles of a triangle is equal to two right angles.
3. Prove that the diagonals of a parallelogram bisect each other.
4. Prove that the bisector of an angle of a triangle divide the opposite sides into segments proportional to the other two sides.
5. Prove that the square described on the hypotenuse of a right triangle is equivalent to the sum of the squares on the other two sides.
6. How much larger is a hole bored by a 2-inch bit than one bored by a  $\frac{1}{8}$ -inch bit?
7. How many square rods in an elliptical garden, whose transverse diameter is 340 feet and conjugate diameter 220 feet?
8. What is the convex surface of a cylinder 18 feet long and 5 feet in circumference?
9. What is the solidity of a square pyramid, the altitude of which is 45 feet and a side of the base 8 feet?
10. If a cannon ball 3 inches in diameter weighs 10 pounds, what is the weight of a ball 9 inches in diameter?

## HISTORY.

1. Name five of the early explorers, and mention the parts of the country explored by each.
2. Compare the settlements of Massachusetts, Virginia and New York during Colonial days, as regards religion, education and form of Government.
3. Give the causes of the Great Wars in which our country has been involved.

4. What were the two most decisive battles of the Revolutionary War? When fought, and under what commanders?

5. What is meant by State Rights, the Spoils System, Civil Service Reform, Interstate Commerce Law?

6. Give the causes of the financial panics of 1837, 1857 and 1873.

7. What treaties have been made between England and the United States? When made? What points were settled by them?

8. What portion of the present territory of the United States belonged to the thirteen Colonies? How have we secured the rest?

9. For what are the following names famous in American History: Ethan Allen, Franklin, Morse, John Jay, Paul Jones, Robert Morris, Tweed, Perry, Sumner, Garrison, Roebling, Hamilton, Lowell, Washington Irving?

10. Give the principal events of Harrison's Administration to the present date.

#### SENIOR LATIN.

1. Decline *bonum iter*.

2. Give principal parts of *cognosco*. Conjugate in the perfect, plu perfect and future perfect indicative, active and passive.

3. Give general rules for the dative case.

4. Translate and parse marked words in italics:

*a.*—*Cæsar, primum suo, deinde omnium ex conspectu remotis equis, ut æquato omnium periculo spem fugæ tolleret, cohortatus suos prælium commisit.*

*b.*—*Damnatum pœnam sequi oportebat, ut igni cremaretur.*

*c.*—*Id si fieret; intellegebat magno cum periculo provinciæ futurum.*

*d.*—*Diem ex die ducere Hædúi; conferri, comportari, adesse, dicere.*

#### JUNIOR LATIN.

1. Give the distinguishing characteristic of each declension.

2. Give the rules for Genitive plural of the 3d declension.

3. (*a*) Translate "*Equos et equites multos in via video.*" Give Genitive Plural of words in italics.

4. Write participles of *video*.
5. (a) Translate "Vere adventus avium hominibus est jucundissimus."
6. (a) Compare the adjective in the above sentence.  
(b) Give two rules for comparing adjectives, and illustrate each.
7. (a) Write a sentence containing a verb of the 3d conjugation, a conjunction, and a neuter noun of the 3d declension.  
(b) Give the uses of *ut* and *ne*.
8. (a) Decline the noun you use in answer to question 7.  
(b) Write the future tense and all the infinitives of the verb you use.
9. (a) Write a sentence showing a use of *ne*.  
(b) The mountains are higher than the trees. Translate in two ways.
10. Write two rules of Syntax.

#### BOTANY.

1. Describe the germination of a seed.
2. Define axil, latent bud, accessory bud, adventitious bud.
3. What is each of the following, root or stem: Common potato, sweet potato, turnip, underground connection between the young sprout of the cherry and the parent plant?
4. Draw a trifoliate palmately compound leaf.
5. Name at least three ways in which plant life may be propagated.
6. Illustrate by drawings two kinds of indeterminate inflorescence, naming each.
7. What kind of fruit is each of the following: Strawberry, apple, peach, cherry?
8. Give and locate parts of a complete flower.
9. Give the series, class, order, genus and specie of any flower of your own selection.
10. Define exogenous, symmetrical, staminate flower, monadelphous, gamopetalous.

## GRAMMAR.

1. Give the principal parts of the following verbs: *a.* Bear (meaning to carry). *b.* Lie (meaning to recline). *c.* Drink. *d.* Chide.

2. Form the plural possessives of the following nouns: Handful, major-general, man-servant, court-martial, bandit, focus, son-in-law, deer, knight templar.

3. Define analysis, synthesis, simple sentence, complex sentence, compound sentence.

4. Parse the words in italic in the following sentences:

*a.* He is the *Cicero* of his age.

*b.* The sea *broke* on the rocks.

*c.* *The longer* I stay, *the more* I am pleased.

*d.* His efforts were *in vain*.

*e.* I ate *two large* apples.

5. Diagram the following sentences:

*a.* He is true to God who is true to man.

*b.* Among the pitfalls in our way the best of us walk blindly.

*c.* Beauty is the mark God sets on virtue.

6. Give your method of parsing the noun, the verb, the participle.

7. Paraphrase and tell from what the extract is taken:

The moon above the eastern wood  
Shone at its full: the hill-range stood  
Transfigured in the silver flood,  
Its blown snows flashing cold and keen;  
Dead white, save where some sharp ravine  
Took shadow, or the sombre green  
Of hemlocks turned to pitchy black  
Against the whiteness at their back.  
For such a world and such a night,  
Most fitting that unwarming light,  
Which only seemed, where'er it fell,  
To make the coldness visible.

## PHYSIOLOGY AND HYGIENE.

1. Define ganglia, pylorus, cochlea, assimilation, ileum.

2. What portion of the brain is affected when a man staggers? Name the office of the portal vein.

3. Name the fluids or juices that aid in digestion, and tell the special use of each.
4. When spirituous liquors are taken into the stomach, their odors are afterwards perceptible in the breath. Explain how this happens.
5. Name five functions of five glands.
6. What organs are especially liable to disease from the use of alcohol? State its effect upon each.
7. Mention a malformation of the eye which would cause near or short sightedness.
8. Give a rule of hygiene in regard to the air we breathe, as to its effect on the blood. State reasons for the rule given.
9. Explain the use of iris, uvula, diaphragm, winking, pain.
10. Give suggestions on heat, light and ventilation, as affecting the school-room.

#### EXPENSES IN NORMAL DEPARTMENT.

Upon page 31 we learn that the State appropriates fifty cents per week for each student over seventeen years of age who pursues professional studies for at least twelve consecutive weeks, and fifty dollars for each graduate. These amounts are credited on tuition and other accounts, leaving the student to pay twenty-one dollars less than full rates for Junior year, and seventy-one dollars less than regular rates for Senior year.

Tuition per term, \$17; deducting State aid, \$10.

Tuition per week, for part of term, \$1.45.

The rooms in the dormitories are furnished with all necessary articles. The rent is \$8 to \$14 per term.

Table board costs from \$1.50 to \$2 per week.

Ample arrangements are made for those who wish to board themselves.

The following is an estimate of the necessary expenses of students per year:

	Lowest.	Liberal.	Highest.
Tuition, State aid deducted, - - - -	\$ 30 00	\$ 30 00	\$ 30 00
Room rent, including light and heat, - - - -	24 00	36 00	42 00
Board, - - - - -	63 00	79 80	94 50
Books and incidentals, - - - - -	15 00	18 00	20 00
	\$132 00	\$163 80	\$186 50

Students who board themselves can materially lessen the expense.